

September 22, 2008

Fluid Minerals Group  
Bureau of Land Management  
Vernal Field Office  
170 South 500 East  
Vernal, Utah 84078

RE: Application for Permit to Drill—XTO Energy, Inc.

**RBV 22-21E**

Surface Location: 2,133' FSL & 1,975' FWL, NE/4 SW/4,  
Target Location: 2,570' FNL & 1,650' FWL, ~~SW/4 NE/4~~, *SE NW*  
Section 21, T10S, R19E, SLB&M, Uintah County, Utah

Dear Fluid Minerals Group:

On behalf of XTO Energy, Inc. Buys & Associates, Inc. respectfully submits the enclosed original and three copies of the Application for Permit to Drill (APD) for the above referenced BLM surface and mineral directional well. The location of the surface and target location as well as all points along the intended well bore path are within Cause No. 259-01 and are not within 460 feet of any uncommitted tracts or the unit boundary. A letter from XTO Energy immediately follows this letter to charge the APD processing fee under the Fiscal Year 2008 Consolidated Appropriations Act. Included with the APD is the following supplemental information:

Exhibit "A" - Survey plats, layouts and photos of the proposed well site;

Exhibit "B" - Proposed location maps with access and utility corridors;

Exhibit "C" - Production site layout;

Exhibit "D" - Directional Drilling Plan with Directional Survey

Exhibit "E" - Surface Use Plan with APD Certification;

Exhibit "F" - Typical BOP and Choke Manifold diagram;

Exhibit "G" - Cultural and Paleontological Clearance Reports.

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Ken Secrest of XTO Energy, Inc. at 435-722-4521 if you have any questions or need additional information.

Sincerely,

*Don Hamilton*

Don Hamilton  
Agent for XTO Energy, Inc.

cc: Diana Mason, Division of Oil, Gas and Mining  
Ken Secrest, XTO Energy, Inc.

RECEIVED

SEP 25 2008

DIV. OF OIL, GAS & MINING

FILE COPY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

|  |  |   |
|--|--|---|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |  | 5. Lease Serial No.<br><b>UTU-013766</b>  |
| 1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone                     |  | 6. If Indian, Allottee or Tribe Name<br>N/A   |
| 2. Name of Operator<br><b>XTO Energy, Inc.</b>   |  | 7. If Unit or CA Agreement, Name and No.<br><b>River Bend Unit</b>                        |
| 3a. Address <b>PO Box 1360; 978 North Crescent Road<br/>Roosevelt, UT 84066</b>  |  | 8. Lease Name and Well No.<br><b>RBV 22-21E</b>   |
| 3b. Phone No. (include area code)<br><b>435-722-4521</b>   |  | 9. API Well No.<br><b>43047-40375</b>   |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface <b>2,133' FSL &amp; 1,975' FWL, NE/4 SW/4,</b><br>At proposed prod. zone <b>2,570' FNL &amp; 1,650' FWL, SW/4 NE/4, SENEW</b> |  | 10. Field and Pool, or Exploratory<br><b>Natural Buttes</b>                               |
| 14. Distance in miles and direction from nearest town or post office*<br><b>12.37 miles southwest of Ouray, Utah</b>   |  | 11. Sec., T. R. M. or Blk. and Survey or Area<br><b>Section 21, T10S, R19E, SLB&amp;M</b> |
| 15. Distance from proposed*<br>location to nearest<br>property or lease line, ft.<br>(Also to nearest drig. unit line, if any) <b>1,975'</b>   | 16. No. of acres in lease<br><b>2,240 acres</b>            | 17. Spacing Unit dedicated to this well<br><b>40 acres</b>                                |
| 18. Distance from proposed location*<br>to nearest well, drilling, completed,<br>applied for, on this lease, ft. <b>20'</b>  | 19. Proposed Depth<br><b>8,583' MD, 8,500' TVD</b>         | 20. BLM/BIA Bond No. on file<br><b>UTB-000138</b>   |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br><b>5,188' GR</b>  | 22. Approximate date work will start*<br><b>12/15/2008</b> | 23. Estimated duration<br><b>14 days</b>  |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

|  |  |                           |
|--|--|---------------------------|
| 25. Signature <b>Don Hamilton</b>            | Name (Printed/Typed)<br><b>Don Hamilton</b>    | Date<br><b>09/22/2008</b> |
| Title<br><b>Agent for XTO Energy, Inc.</b>   |  |                           |
| Approved by (Signature) <b>[Signature]</b>   | Name (Printed/Typed)<br><b>BRADLEY G. HILL</b> | Date<br><b>10-09-08</b>   |
| Title<br><b>Office ENVIRONMENTAL MANAGER</b> |  |                           |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

Surf

603492X  
4420621Y  
39.931268  
- 109.788842

BHL  
603387X  
4420804Y  
39.932930  
- 109.790040

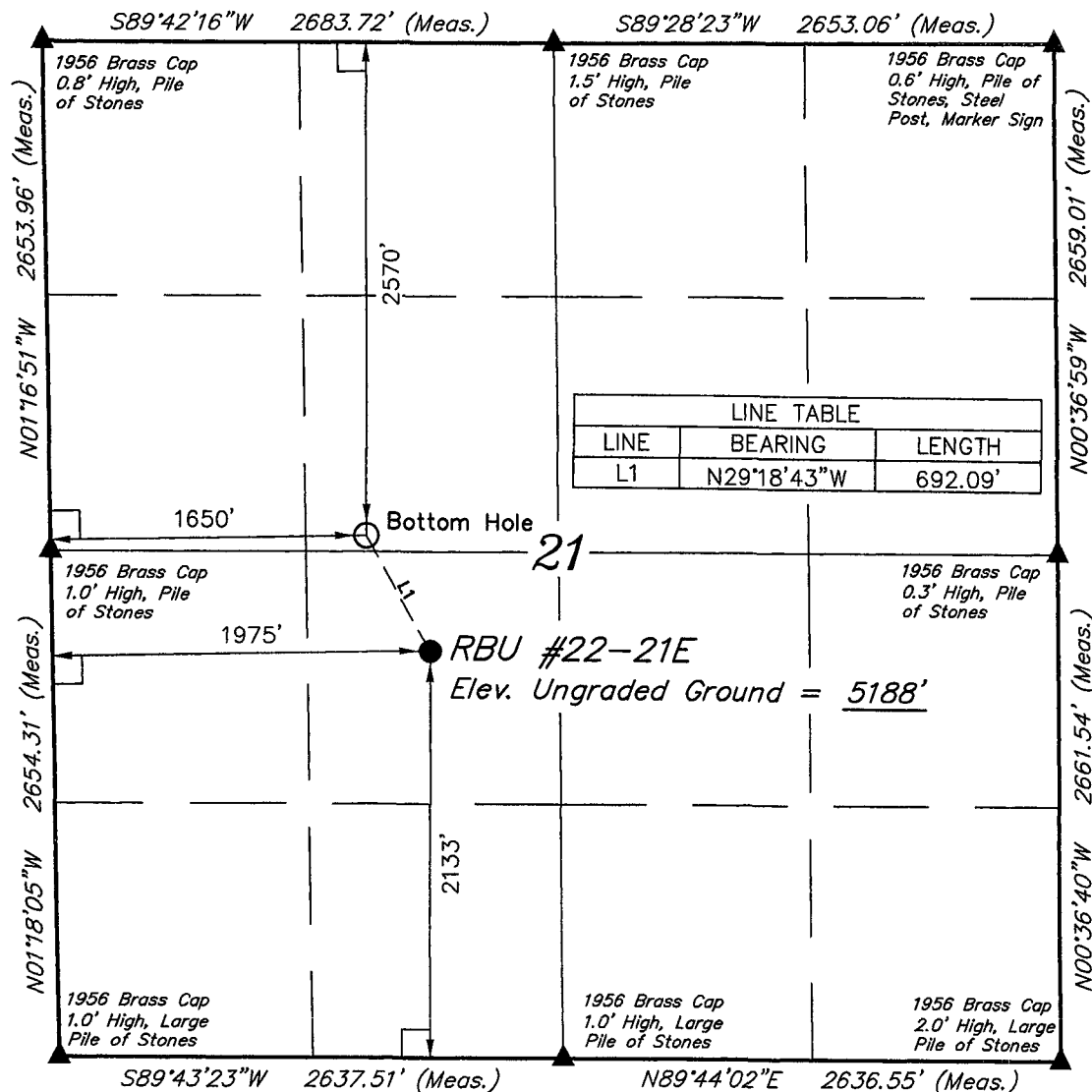
RECEIVED

SEP 25 2008

DIV. OF OIL, GAS & MINING

Federal Approval of this  
Action is Necessary

T10S, R19E, S.L.B.&M.



| LINE TABLE |              |         |
|------------|--------------|---------|
| LINE       | BEARING      | LENGTH  |
| L1         | N29°18'43\"W | 692.09' |

Elev. Ungraded Ground = 5188'

#### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

#### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

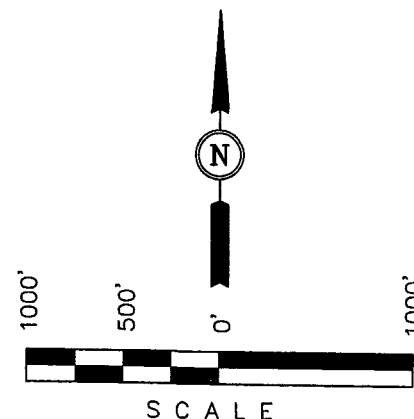
(NAD 83)  
 LATITUDE = 39°55'52.52" (39.931256)  
 LONGITUDE = 109°47'22.79" (109.789664)  
 (NAD 27)  
 LATITUDE = 39°55'52.65" (39.931292)  
 LONGITUDE = 109°47'20.28" (109.788967)

#### XTO ENERGY, INC.

Well location, RBU #22-21E, located as shown in the NE 1/4 SW 1/4 of Section 21, T10S, R19E, S.L.B.&M., Uintah County Utah.

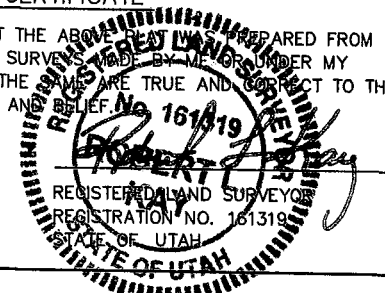
#### BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 20, T10S, R20E, S.L.B.&M., TAKEN FROM THE BIG PACK MTN. NW QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5251 FEET.



#### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



UINTAH ENGINEERING & LAND SURVEYING  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

|                         |                                       |                         |
|-------------------------|---------------------------------------|-------------------------|
| SCALE<br>1" = 1000'     | DATE SURVEYED:<br>10-17-07            | DATE DRAWN:<br>11-19-07 |
| PARTY<br>B.B. K.D. L.K. | REFERENCES<br>G.L.O. PLAT             |                         |
| WEATHER<br>COOL         | FILE<br>DOMINION EXPLR. & PROD., INC. |                         |



REU 22-21E

## **COVER SHEET FOR ALL FEDERAL APDs**

**Dear BLM Office:**

**Re: Fiscal Year 2008 Consolidated Appropriations Act**

**Please charge the \$4000 APD fee to the credit card XTO has provided to the BLM office and send the receipt to:**

**Brenda Waller  
XTO Energy, Inc.  
382 Road 3100  
Aztec, NM 87410**

**Please contact me if anything further is needed at 505-215-0027.**

**Sincerely,**

**XTO Energy, Inc.**

A handwritten signature in cursive script that reads "Brenda Waller".

**Brenda Waller  
Manager of Regulatory Compliance**



# XTO ENERGY INC.

RBU 22-21E

APD Data

September 16, 2008

Location: 2133' FSL & 1975' FWL, Sec. 21, T10S, R19E County: Uintah

State: Utah

Bottomhole Location: 2570' FNL & 1650' FWL, Sec. 21, T10S, R19E

GREATEST PROJECTED TD: 8583' MD/ 8500' TVD

OBJECTIVE: Wasatch/Mesaverde

APPROX GR ELEV: 5188'

Est KB ELEV: 5202' (14' AGL)

## 1. MUD PROGRAM:

|            |             |                               |
|------------|-------------|-------------------------------|
| INTERVAL   | 0' to 2252' | 2252' to 8583'                |
| HOLE SIZE  | 12.25"      | 7.875"                        |
| MUD TYPE   | FW/Spud Mud | KCl Based LSND / Gel Chemical |
| WEIGHT     | 8.80 ppg    | 8.6-9.2 ppg                   |
| VISCOSITY  | NC          | 30-60 sec-qt <sup>-1</sup>    |
| WATER LOSS | NC          | 8-15 cc/30 min                |

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes. The mud system will be monitored visually/manually.

## 2. CASING PROGRAM:

Surface Casing: 9.625" casing set at  $\pm 2252'$  MD/2200' TVD in a 12.25" hole filled with 8.8 ppg mud

| Interval | Length | Wt  | Gr   | Cplg | Coll Rating (psi) | Burst Rating (psi) | Jt Str (M-lbs) | ID (in) | Drift (in) | SF Coll | SF Burst | SF Ten |
|----------|--------|-----|------|------|-------------------|--------------------|----------------|---------|------------|---------|----------|--------|
| 0'-2252' | 2252'  | 36# | J-55 | ST&C | 2020              | 3520               | 394            | 8.921   | 8.765      | 2.57    | 4.47     | 4.86   |

Production Casing: 5.5" casing set at  $\pm 8583'$  MD/8500' TVD in a 7.875" hole filled with 9.20 ppg mud.

| Interval | Length | Wt  | Gr   | Cplg | Coll Rating (psi) | Burst Rating (psi) | Jt Str (M-lbs) | ID (in) | Drift (in) | SF Coll | SF Burst | SF Ten |
|----------|--------|-----|------|------|-------------------|--------------------|----------------|---------|------------|---------|----------|--------|
| 0'-8583' | 8583'  | 17# | N-80 | LT&C | 6280              | 7740               | 348            | 4.892   | 4.767      | 1.95    | 2.41     | 2.39   |

Collapse and burst loads calculated at TVD with 0.1 psi/ft gas gradient back up.

## 3. WELLHEAD:

- A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread on bottom (or slip-on, weld-on) and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 5,000 psig WP, 5-1/2" 8rnd female thread on bottom (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

## 4. CEMENT PROGRAM:

- A. Surface: 9.625", 36#, J-55 (or equiv.), ST&C casing to be set at  $\pm 2252'$  in 12.25" hole.

### LEAD:

$\pm 222$  sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.0 ppg, 3.82 ft<sup>3</sup>/sk, 22.95 gal wtr/sx.

### TAIL:

350 sx Class G or equivalent cement with bonding additive, LCM, dispersant, & fluid loss mixed at 15.6 ppg, 1.2 cuft/sx

*Total estimated slurry volume for the 9.625" surface casing is 1268.4 ft<sup>3</sup>. Slurry includes 75% excess of calculated open hole annular volume to 2252'.*

B. Production: 5.5", 17#, N-80 (or equiv.), LT&C casing to be set at ±8583' in 7.875" hole.

LEAD:

±260 sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.6 ppg, 3.10 ft<sup>3</sup>/sk, 17.71 gal wtr/sx.

TAIL:

400 sx Class G or equivalent cement with poz, bonding additive, LCM, dispersant, & fluid loss mixed at 13.0 ppg, 1.49 cuft/sx, 9.09 gal/sx.

*Total estimated slurry volume for the 5.5" production casing is 1401.8 ft<sup>3</sup>. Slurry includes 15% excess of calculated open hole annular volume.*

*Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 15% or greater excess. The cement is designed to circulate on surface casing string. The production casing is designed for 1752' top of cement..*

**5. LOGGING PROGRAM:**

- A. Mud Logger: The mud logger will come on at intermediate casing point and will remain on the hole until TD. The mud will be logged in 10' intervals.
- B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (8583') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (8583') to 2252'. Run Gamma Ray to surface.

**6. FORMATION TOPS:**

Please see attached directional plan.

**7. ANTICIPATED OIL, GAS, & WATER ZONES:**

A.

| Formation           | Expected Fluids | TV Depth Top |
|---------------------|-----------------|--------------|
| Green River         | Water/Oil Shale | 1,139        |
| Mahogany Bench Mbr. | Water/Oil Shale | 1,969        |
| Wasatch Tongue      | Oil/Gas/Water   | 4,057        |
| Green River Tongue  | Oil/Gas/Water   | 4,427        |
| Wasatch*            | Gas/Water       | 4,582        |
| Chapita Wells*      | Gas/Water       | 5,262        |
| Uteland Buttes      | Gas/Water       | 6,797        |
| Mesaverde*          | Gas/Water       | 7,662        |
| Castlegate          | Gas/Water       | N/A          |

- B. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.
- C. There are no known potential sources of H<sub>2</sub>S.

D. The bottomhole pressure is anticipated to be between 4200 psi and 4600 psi.

E. According to the USGS, the Base of Moderately Saline Water is at 4107'.

**8. BOP EQUIPMENT:**

Surface will utilize a 500 psi or greater diverter.

Production hole will be drilled with a 3000 psi BOP stack.

Minimum specifications for pressure control equipment are as follows:

Ram Type: 11" Hydraulic double ram with annular, 3000 psi w.p.

Ram type preventers and associated equipment shall be tested to stack working pressure if isolated by test plug or to 70% of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10% in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50% of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed:
- b. whenever any seal subject to test pressure is broken
- c. following related repairs: and
- d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) shall be held open or the ball removed.

Annular preventers (if used) shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No.2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests. Pressure tests shall apply to all related well control equipment.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Test pressures for BOP equipment are as follows:

Annular BOP -- 1500 psi  
Ram type BOP -- 3000 psi  
Kill line valves -- 3000 psi  
Choke line valves and choke manifold valves -- 3000 psi  
Chokes -- 3000 psi  
Casing, casinghead & weld -- 1500 psi  
Upper kelly cock and safety valve -- 3000 psi  
Dart valve -- 3000 psi

Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The BLM in Vernal, UT shall be notified, at least 24 hours prior to initiating the pressure test, in order to have a BLM representative on location during pressure testing.

- a. The size and rating of the BOP stack is shown on the attached diagram.
- b. A choke line and a kill line are to be properly installed.
- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.
- e. See attached BOP & Choke manifold diagrams.

9. **COMPANY PERSONNEL:**

| <b><u>Name</u></b> | <b><u>Title</u></b>     | <b><u>Office Phone</u></b> | <b><u>Home Phone</u></b> |
|--------------------|-------------------------|----------------------------|--------------------------|
| John Egelston      | Drilling Engineer       | 505-333-3163               | 505-330-6902             |
| Bobby Jackson      | Drilling Superintendent | 505-333-3224               | 505-486-4706             |
| Jeff Jackson       | Project Geologist       | 817-885-2800               |                          |

## SURFACE USE PLAN

**Name of Operator:** XTO Energy, Inc.  
**Address:** PO Box 1360; 978 North Crescent Road  
Roosevelt, Utah 84066  
**Well Location:** RBU 22-21E

*Surface Location:* 2,133' FSL & 1,975' FWL, NE/4 SW/4,  
*Target Location:* 2,570' FNL & 1,650' FWL, ~~SW/4 NE/4~~, *SE NW*  
Section 21, T10S, R19E, SLB&M, Uintah County, Utah

The surface owner or surface owner representative and dirt contractor will be provided with an approved copy of the surface use plan of operations and approved conditions of approval before initiating construction.

The onsite inspection for the referenced well was conducted on Tuesday, April 29, 2008 at approximately 2:21 pm. In attendance at the onsite inspection were the following individuals:

|                   |                             |                                     |
|-------------------|-----------------------------|-------------------------------------|
| Karl Wright       | Natural Resource Specialist | BLM – Vernal Field Office           |
| Brandon McDonald  | Wildlife Biologist          | BLM – Vernal Field Office           |
| Floyd Bartlett    | Inspector                   | DOGM – Roosevelt Field Office       |
| Brandon Bowthorpe | Surveyor                    | Uintah Engineering & Land Surveying |
| Randy Jackson     | Foreman                     | Jackson Construction                |
| Billy McClure     | Foreman                     | LaRose Construction                 |
| Jody Mecham       | Engineer                    | XTO Energy Inc.                     |
| Ken Secrest       | Regulatory Coordinator      | XTO Energy, Inc.                    |

1. Location of Existing Roads:

- a. The proposed well site is located approximately 27.37 miles southwest of Ouray, Utah.
- b. Directions to the proposed well site have been attached at the end of Exhibit B.
- c. The use of roads under State and County Road Department maintenance are necessary to access the River Bend Unit area. However, an encroachment permit is not anticipated since no upgrades to the State or County Road system are proposed at this time.
- d. All existing roads will be maintained and kept in good repair during all phases of operation.
- e. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- f. Since no improvements are anticipated to the State, County, Tribal or BLM access roads no topsoil striping will occur.
- g. An off-lease federal Right-of-Way is not anticipated for the access road and utility corridors since both are located entirely within the River Bend Unit area.

2. Planned Access Roads:

- a. No new access is proposed since the well will be drilled from the existing RBU 11-21E utilizing the existing access road.

3. Location of Existing Wells:

- a. Exhibit B has a map reflecting these wells within a one mile radius of the proposed well.

4. Location of Existing and/or Proposed Production Facilities:

- a. All permanent structures will be painted a flat, non-reflective Covert Green /Carlsbad Canyon to match the standard environmental colors. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- b. Site security guidelines identified in 43 CFR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.
- c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- d. A tank battery will be constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.
- e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- g. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- h. No new pipeline is proposed since the well will be drilled from the existing RBU 11-21E utilizing the existing pipeline corridor.

5. Location and Type of Water Supply:

- a. No water supply pipelines will be laid for this well.
- b. No water well will be drilled for this well.
- c. Drilling water for this will be hauled on the road(s) shown in Exhibit B.
- d. Water will be hauled from one of the following sources:
  - o Water Permit # 43-10991, Section 9, T8S, R20E;
  - o Water Permit #43-2189, Section 33, T8S, R20E;
  - o Water Permit #49-2158, Section 33, T8S, R20E;
  - o Water Permit #49-2262, Section 33, T8S, R20E;

- Water Permit #49-1645, Section 5, T9S, R22E;
- Water Permit #43-9077, Section 32, T6S, R20E;
- Tribal Resolution 06-183, Section 22, T10S, R20E;

6. Source of Construction Material:

- a. The use of materials will conform to 43 CFR 3610.2-3.
- b. No construction materials will be removed from Ute Tribal or BLM lands.
- c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste:

- a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.
- b. Drill cuttings will be contained and buried on site.
- c. The reserve pit will be located outboard of the location and along the west side of the pad.
- d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.
- e. The reserve pit will be lined with 16 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.
- f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.
- g. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.
- h. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.
- i. Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.
- j. After initial clean-up, a 400 bbl tank will be installed to contain produced waste water. This water will be transported from the tank to an approved XTO Energy, Inc. disposal well for disposal.

- k. Produced water from the production well will be disposed of at the RBU 13-11F or RBU 16-19F disposal wells in accordance with Onshore Order #7.
- l. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.
- m. Sanitary facilities will be on site at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

- a. Garbage Containers and Portable Toilets are the only ancillary facilities proposed in this application.
- b. No camps, airstrips or staging areas are proposed with this application.

9. Well Site Layout: (See Exhibit B)

- a. The well will be properly identified in accordance with 43 CFR 3162.6.
- b. Access to the well pad will be from the north.
- c. The pad and road designs are consistent with BLM specifications.
- d. A pre-construction meeting with responsible company representative, contractors and the BLM will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.
- e. The pad has been staked at its maximum size; however it will be constructed smaller if possible, depending upon rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.
- f. All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.
- g. All cut and fill slopes will be such that stability can be maintained for the life of the activity.
- h. Diversion ditches will be constructed as shown around the well site to prevent surface waters from entering the well site area.
- i. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.
- j. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.
- k. Pits will remain fenced until site cleanup.
- l. The blooie line will be located at least 100 feet from the well head.
- m. Water injection may be implemented if necessary to minimize the amount of fugitive dust.



10. Plans for Restoration of the Surface (Interim Reclamation and Final Reclamation):

- a. Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.
- b. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. Once the reserve pit is dry, the plastic nylon reinforced liner shall be torn and perforated before backfilling of the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours.
- c. Following BLM published Best Management Practices the interim reclamation will be completed within 90 days of completion of the well to reestablish vegetation, reduce dust and erosion and compliment the visual resources of the area.
  - a. All equipment and debris will be removed from the area proposed for interim reclamation and the pit area will be backfilled and re-contoured.
  - b. The area outside of the rig anchors and other disturbed areas not needed for the operation of the well will be re-contoured to blend with the surrounding area and reseeded at 12 lbs /acre with the following native grass seeds:
    - o Hy-Crested Wheat Grass (4 lbs / acre)
    - o Needle and Thread Grass (4 lbs / acre)
    - o Squirrel Tail (4 lbs / acre)
  - c. Reclaimed areas receiving incidental disturbance during the life of the producing well will be re-contoured and reseeded as soon as practical.
- d. The Operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.
- e. Prior to final abandonment of the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the BLM. The BLM recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

- a. Surface Ownership – Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.
- b. Mineral Ownership – Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.

12. Other Information:

a. Operators Contact Information:

| Title        | Name         | Office Phone | Mobile Phone | e-mail                    |
|--------------|--------------|--------------|--------------|---------------------------|
| Company Rep. | Ken Secrest  | 435-722-4521 | 435-828-1450 | Ken_Secrest@xtoenergy.com |
| Agent        | Don Hamilton | 435-719-2018 | 435-719-2018 | starpoint@etv.net         |

- b. An Independent Archeologist. has conducted a Class III archeological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by An Independent Archeologist.
- c. Alden Hamblin has conducted a paleontological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by Alden Hamblin.
- d. Our understanding of the results of the onsite inspection are:
  - a. No Threatened and Endangered flora and fauna species were found during the onsite inspection.
  - b. No drainage crossings that require additional State or Federal approval are being crossed.

Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exists; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under XTO Energy, Inc's BLM bond UTB-000138. These statements are subject to the provisions of 18 U.S.C. 1001 for the fling of false statements.

Executed this 22nd day of September, 2008.

Don Hamilton

Don Hamilton -- Agent for XTO Energy, Inc.  
2580 Creekview Road  
Moab, Utah 84532

435-719-2018  
starpoint@etv.net



# Well Name: RBU 22-21E

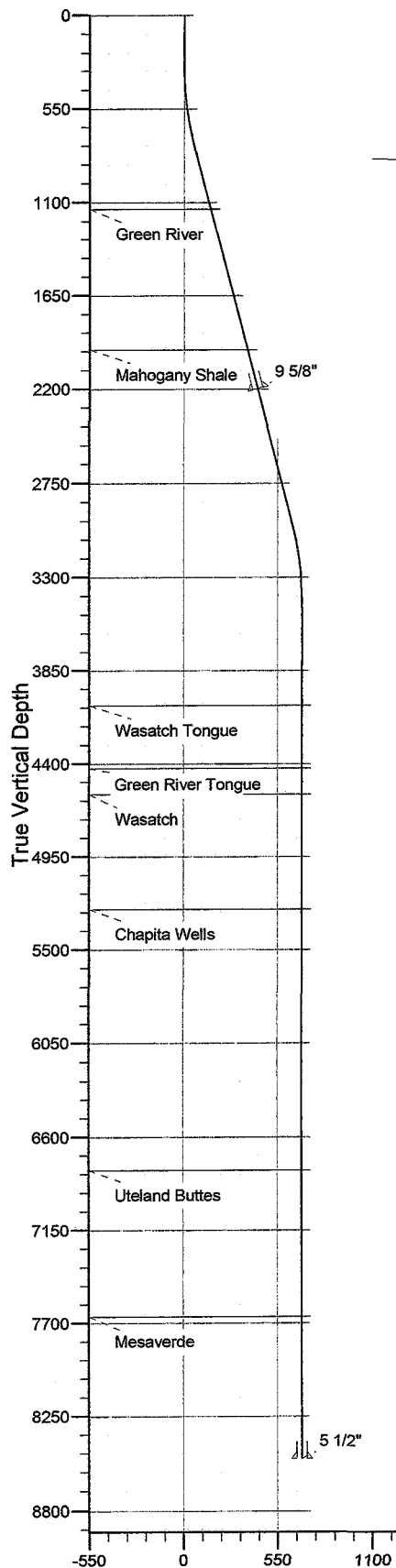
San Juan Division  
Drilling Department

Calculation Method: Minimum Curvature  
Geodetic Datum: North American Datum 1983  
Lat: 39° 55' 52.522 N  
Long: 109° 47' 22.790 W



Azimuths to True North  
Magnetic North: 11.52°

Magnetic Field  
Strength: 52547.3nT  
Dip Angle: 65.83°  
Date: 9/16/2008  
Model: IGRF200510



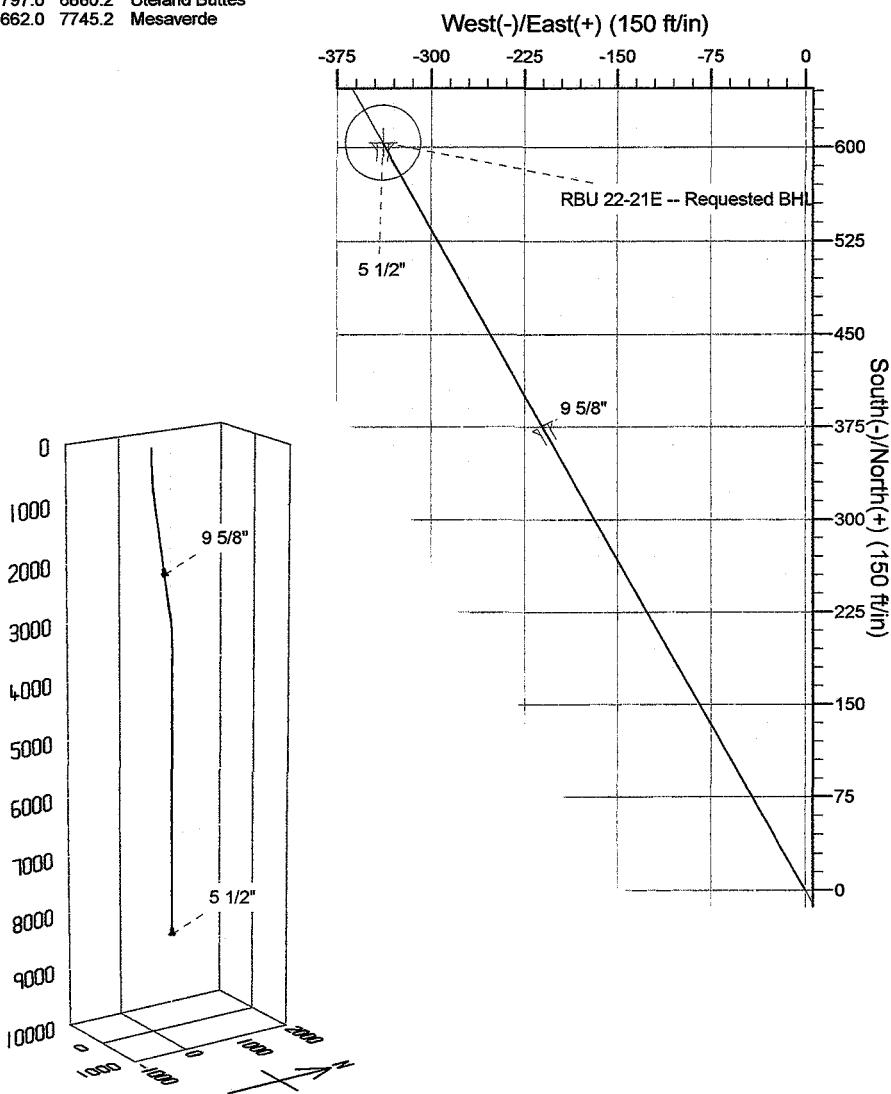
Vertical Section at 330.68°

## FORMATION TOP DETAILS

| TVDPath | MDPath | Formation          |
|---------|--------|--------------------|
| 1139.0  | 1156.1 | Green River        |
| 1969.0  | 2013.7 | Mahogany Shale     |
| 4057.0  | 4140.2 | Wasatch Tongue     |
| 4427.0  | 4510.2 | Green River Tongue |
| 4582.0  | 4665.2 | Wasatch            |
| 5262.0  | 5345.2 | Chapita Wells      |
| 6797.0  | 6880.2 | Uteland Buttes     |
| 7662.0  | 7745.2 | Mesaverde          |

## CASING DETAILS

| TVD    | MD     | Name   | Size  |
|--------|--------|--------|-------|
| 2200.0 | 2252.4 | 9 5/8" | 9-5/8 |
| 8500.0 | 8583.2 | 5 1/2" | 5-1/2 |



## SECTION DETAILS

| Sec | MD     | Inc   | Azi    | TVD    | +N/-S | +E/-W  | DLeg | TFace  | VSec  | Target |
|-----|--------|-------|--------|--------|-------|--------|------|--------|-------|--------|
| 1   | 0.0    | 0.00  | 0.00   | 0.0    | 0.0   | 0.0    | 0.00 | 0.00   | 0.0   |        |
| 2   | 300.0  | 0.00  | 0.00   | 300.0  | 0.0   | 0.0    | 0.00 | 0.00   | 0.0   |        |
| 3   | 785.9  | 14.58 | 330.68 | 780.7  | 53.6  | -30.1  | 3.00 | 330.68 | 61.5  |        |
| 4   | 3047.4 | 14.58 | 330.68 | 2969.3 | 549.8 | -308.8 | 0.00 | 0.00   | 630.6 |        |
| 5   | 3533.2 | 0.00  | 0.00   | 3450.0 | 603.4 | -338.9 | 3.00 | 180.00 | 692.1 |        |
| 6   | 4283.2 | 0.00  | 0.00   | 4200.0 | 603.4 | -338.9 | 0.00 | 0.00   | 692.1 |        |
| 7   | 8583.2 | 0.00  | 0.00   | 8500.0 | 603.4 | -338.9 | 0.00 | 0.00   | 692.1 |        |

RBU 22-21E -- Requested BHL

# **XTO Energy**

**Natural Buttes Wells(NAD83)**

**RBU 22-21E**

**RBU 22-21E**

**RBU 22-21E**

**Plan: Permitted Wellbore**

## **Standard Planning Report**

**16 September, 2008**

# XTO Energy, Inc.

## Planning Report

**Database:** EDM 2003.14 Single User Db  
**Company:** XTO Energy  
**Project:** Natural Buttes Wells(NAD83)  
**Site:** RBU 22-21E  
**Well:** RBU 22-21E  
**Wellbore:** RBU 22-21E  
**Design:** Permitted Wellbore

**Local Co-ordinate Reference:** Well RBU 22-21E  
**TVD Reference:** Rig KB @ 5202.0ft (Frontier #6)  
**MD Reference:** Rig KB @ 5202.0ft (Frontier #6)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

|                    |   |                      |                            |
|--------------------|---|----------------------|----------------------------|
| <b>Project</b>     | Natural Buttes Wells(NAD83), Vernal, UT |                      |                            |
| <b>Map System:</b> | US State Plane 1983                     | <b>System Datum:</b> | Mean Sea Level             |
| <b>Geo Datum:</b>  | North American Datum 1983               |                      | Using Well Reference Point |
| <b>Map Zone:</b>   | Utah Northern Zone                      |                      |                            |

|                              |                        |                          |                   |
|------------------------------|------------------------|--------------------------|-------------------|
| <b>Site</b>                  | RBU 22-21E, T10S, R19E |                          |                   |
| <b>Site Position:</b>        |                        | <b>Northing:</b>         | 3,139,058.41 ft   |
| <b>From:</b>                 | Lat/Long               | <b>Easting:</b>          | 2,120,143.92 ft   |
| <b>Position Uncertainty:</b> | 0.0 ft                 | <b>Slot Radius:</b>      | "                 |
|                              |                        | <b>Latitude:</b>         | 39° 55' 52.522 N  |
|                              |                        | <b>Longitude:</b>        | 109° 47' 22.790 W |
|                              |                        | <b>Grid Convergence:</b> | 1.13 °            |

|                             |   |                            |                                  |
|-----------------------------|---|----------------------------|----------------------------------|
| <b>Well</b>                 | RBU 22-21E, S-Well to Wasatch/Mesaverde |                            |                                  |
| <b>Well Position</b>        | +N/-S                                   | 0.0 ft                     | <b>Northing:</b> 3,139,058.41 ft |
|                             | +E/-W                                   | 0.0 ft                     | <b>Easting:</b> 2,120,143.92 ft  |
| <b>Position Uncertainty</b> | 0.0 ft                                  | <b>Wellhead Elevation:</b> | 5,188.0 ft                       |
|                             |   | <b>Latitude:</b>           | 39° 55' 52.522 N                 |
|                             |   | <b>Longitude:</b>          | 109° 47' 22.790 W                |
|                             |   | <b>Ground Level:</b>       | 5,188.0 ft                       |

|                  |                   |                    |                       |
|------------------|-------------------|--------------------|-----------------------|
| <b>Wellbore</b>  | RBU 22-21E        |                    |                       |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b>    |
|                  |                   |                    | (°)                   |
|                  | IGRF200510        | 9/16/2008          | 11.52                 |
|                  |                   |                    | <b>Dip Angle</b>      |
|                  |                   |                    | (°)                   |
|                  |                   |                    | 65.83                 |
|                  |                   |                    | <b>Field Strength</b> |
|                  |                   |                    | (nT)                  |
|                  |                   |                    | 52,547                |

|                          |                         |              |                          |
|--------------------------|-------------------------|--------------|--------------------------|
| <b>Design</b>            | Permitted Wellbore      |              |                          |
| <b>Audit Notes:</b>      |                         |              |                          |
| <b>Version:</b>          | <b>Phase:</b>           | PROTOTYPE    | <b>Tie On Depth:</b> 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b> | <b>+E/-W</b>             |
|                          | (ft)                    | (ft)         | (ft)                     |
|                          | 0.0                     | 0.0          | 0.0                      |
|                          |                         |              | <b>Direction</b>         |
|                          |                         |              | (°)                      |
|                          |                         |              | 330.68                   |

|                      |                    |                |                 |              |              |                  |                  |                  |            |                     |
|----------------------|--------------------|----------------|-----------------|--------------|--------------|------------------|------------------|------------------|------------|---------------------|
| <b>Plan Sections</b> |                    |                |                 |              |              |                  |                  |                  |            |                     |
| <b>Measured</b>      | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical</b> | <b>+N/-S</b> | <b>+E/-W</b> | <b>Dogleg</b>    | <b>Build</b>     | <b>Turn</b>      | <b>TFO</b> | <b>Target</b>       |
| <b>Depth</b>         | <b>(°)</b>         | <b>(°)</b>     | <b>Depth</b>    | <b>(ft)</b>  | <b>(ft)</b>  | <b>Rate</b>      | <b>Rate</b>      | <b>Rate</b>      | <b>(°)</b> |                     |
| <b>(ft)</b>          |                    |                | <b>(ft)</b>     |              |              | <b>(°/100ft)</b> | <b>(°/100ft)</b> | <b>(°/100ft)</b> |            |                     |
| 0.0                  | 0.00               | 0.00           | 0.0             | 0.0          | 0.0          | 0.00             | 0.00             | 0.00             | 0.00       |                     |
| 300.0                | 0.00               | 0.00           | 300.0           | 0.0          | 0.0          | 0.00             | 0.00             | 0.00             | 0.00       |                     |
| 785.9                | 14.58              | 330.68         | 780.7           | 53.6         | -30.1        | 3.00             | 3.00             | 0.00             | 330.68     |                     |
| 3,047.4              | 14.58              | 330.68         | 2,969.3         | 549.8        | -308.8       | 0.00             | 0.00             | 0.00             | 0.00       |                     |
| 3,533.2              | 0.00               | 0.00           | 3,450.0         | 603.4        | -338.9       | 3.00             | -3.00            | 0.00             | 180.00     |                     |
| 4,283.2              | 0.00               | 0.00           | 4,200.0         | 603.4        | -338.9       | 0.00             | 0.00             | 0.00             | 0.00       | RBU 22-21E -- Reque |
| 8,583.2              | 0.00               | 0.00           | 8,500.0         | 603.4        | -338.9       | 0.00             | 0.00             | 0.00             | 0.00       |                     |

# XTO Energy, Inc.

## Planning Report

**Database:** EDM 2003.14 Single User Db  
**Company:** XTO Energy  
**Project:** Natural Buttes Wells(NAD83)  
**Site:** RBU 22-21E  
**Well:** RBU 22-21E  
**Wellbore:** RBU 22-21E  
**Design:** Permitted Wellbore

**Local Co-ordinate Reference:** Well RBU 22-21E  
**TVD Reference:** Rig KB @ 5202.0ft (Frontier #6)  
**MD Reference:** Rig KB @ 5202.0ft (Frontier #6)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 0.0                       | 0.00               | 0.00           | 0.0                       | 0.0           | 0.0           | 0.0                         | 0.00                        | 0.00                       | 0.00                      |
| 100.0                     | 0.00               | 0.00           | 100.0                     | 0.0           | 0.0           | 0.0                         | 0.00                        | 0.00                       | 0.00                      |
| 200.0                     | 0.00               | 0.00           | 200.0                     | 0.0           | 0.0           | 0.0                         | 0.00                        | 0.00                       | 0.00                      |
| 300.0                     | 0.00               | 0.00           | 300.0                     | 0.0           | 0.0           | 0.0                         | 0.00                        | 0.00                       | 0.00                      |
| 400.0                     | 3.00               | 330.68         | 400.0                     | 2.3           | -1.3          | 2.6                         | 3.00                        | 3.00                       | 0.00                      |
| 500.0                     | 6.00               | 330.68         | 499.6                     | 9.1           | -5.1          | 10.5                        | 3.00                        | 3.00                       | 0.00                      |
| 600.0                     | 9.00               | 330.68         | 598.8                     | 20.5          | -11.5         | 23.5                        | 3.00                        | 3.00                       | 0.00                      |
| 700.0                     | 12.00              | 330.68         | 697.1                     | 36.4          | -20.4         | 41.7                        | 3.00                        | 3.00                       | 0.00                      |
| 785.9                     | 14.58              | 330.68         | 780.7                     | 53.6          | -30.1         | 61.5                        | 3.00                        | 3.00                       | 0.00                      |
| 800.0                     | 14.58              | 330.68         | 794.3                     | 56.7          | -31.8         | 65.0                        | 0.00                        | 0.00                       | 0.00                      |
| 900.0                     | 14.58              | 330.68         | 891.1                     | 78.6          | -44.2         | 90.2                        | 0.00                        | 0.00                       | 0.00                      |
| 1,000.0                   | 14.58              | 330.68         | 987.9                     | 100.6         | -56.5         | 115.4                       | 0.00                        | 0.00                       | 0.00                      |
| 1,100.0                   | 14.58              | 330.68         | 1,084.7                   | 122.5         | -68.8         | 140.5                       | 0.00                        | 0.00                       | 0.00                      |
| 1,156.1                   | 14.58              | 330.68         | 1,139.0                   | 134.8         | -75.7         | 154.7                       | 0.00                        | 0.00                       | 0.00                      |
| <b>Green River</b>        |                    |                |                           |               |               |                             |                             |                            |                           |
| 1,200.0                   | 14.58              | 330.68         | 1,181.4                   | 144.5         | -81.1         | 165.7                       | 0.00                        | 0.00                       | 0.00                      |
| 1,300.0                   | 14.58              | 330.68         | 1,278.2                   | 166.4         | -93.5         | 190.9                       | 0.00                        | 0.00                       | 0.00                      |
| 1,400.0                   | 14.58              | 330.68         | 1,375.0                   | 188.4         | -105.8        | 216.0                       | 0.00                        | 0.00                       | 0.00                      |
| 1,500.0                   | 14.58              | 330.68         | 1,471.8                   | 210.3         | -118.1        | 241.2                       | 0.00                        | 0.00                       | 0.00                      |
| 1,600.0                   | 14.58              | 330.68         | 1,568.6                   | 232.2         | -130.4        | 266.4                       | 0.00                        | 0.00                       | 0.00                      |
| 1,700.0                   | 14.58              | 330.68         | 1,665.4                   | 254.2         | -142.8        | 291.5                       | 0.00                        | 0.00                       | 0.00                      |
| 1,800.0                   | 14.58              | 330.68         | 1,762.1                   | 276.1         | -155.1        | 316.7                       | 0.00                        | 0.00                       | 0.00                      |
| 1,900.0                   | 14.58              | 330.68         | 1,858.9                   | 298.1         | -167.4        | 341.9                       | 0.00                        | 0.00                       | 0.00                      |
| 2,000.0                   | 14.58              | 330.68         | 1,955.7                   | 320.0         | -179.7        | 367.0                       | 0.00                        | 0.00                       | 0.00                      |
| 2,013.7                   | 14.58              | 330.68         | 1,969.0                   | 323.0         | -181.4        | 370.5                       | 0.00                        | 0.00                       | 0.00                      |
| <b>Mahogany Shale</b>     |                    |                |                           |               |               |                             |                             |                            |                           |
| 2,100.0                   | 14.58              | 330.68         | 2,052.5                   | 342.0         | -192.1        | 392.2                       | 0.00                        | 0.00                       | 0.00                      |
| 2,200.0                   | 14.58              | 330.68         | 2,149.3                   | 363.9         | -204.4        | 417.4                       | 0.00                        | 0.00                       | 0.00                      |
| 2,252.4                   | 14.58              | 330.68         | 2,200.0                   | 375.4         | -210.8        | 430.6                       | 0.00                        | 0.00                       | 0.00                      |
| <b>9 5/8"</b>             |                    |                |                           |               |               |                             |                             |                            |                           |
| 2,300.0                   | 14.58              | 330.68         | 2,246.0                   | 385.8         | -216.7        | 442.5                       | 0.00                        | 0.00                       | 0.00                      |
| 2,400.0                   | 14.58              | 330.68         | 2,342.8                   | 407.8         | -229.0        | 467.7                       | 0.00                        | 0.00                       | 0.00                      |
| 2,500.0                   | 14.58              | 330.68         | 2,439.6                   | 429.7         | -241.3        | 492.9                       | 0.00                        | 0.00                       | 0.00                      |
| 2,600.0                   | 14.58              | 330.68         | 2,536.4                   | 451.7         | -253.7        | 518.0                       | 0.00                        | 0.00                       | 0.00                      |
| 2,700.0                   | 14.58              | 330.68         | 2,633.2                   | 473.6         | -266.0        | 543.2                       | 0.00                        | 0.00                       | 0.00                      |
| 2,800.0                   | 14.58              | 330.68         | 2,729.9                   | 495.6         | -278.3        | 568.4                       | 0.00                        | 0.00                       | 0.00                      |
| 2,900.0                   | 14.58              | 330.68         | 2,826.7                   | 517.5         | -290.6        | 593.5                       | 0.00                        | 0.00                       | 0.00                      |
| 3,000.0                   | 14.58              | 330.68         | 2,923.5                   | 539.4         | -303.0        | 618.7                       | 0.00                        | 0.00                       | 0.00                      |
| 3,047.4                   | 14.58              | 330.68         | 2,969.3                   | 549.8         | -308.8        | 630.6                       | 0.00                        | 0.00                       | 0.00                      |
| 3,100.0                   | 13.00              | 330.68         | 3,020.5                   | 560.8         | -314.9        | 643.2                       | 3.00                        | -3.00                      | 0.00                      |
| 3,200.0                   | 10.00              | 330.68         | 3,118.5                   | 578.1         | -324.7        | 663.1                       | 3.00                        | -3.00                      | 0.00                      |
| 3,300.0                   | 7.00               | 330.68         | 3,217.3                   | 591.0         | -331.9        | 677.9                       | 3.00                        | -3.00                      | 0.00                      |
| 3,400.0                   | 4.00               | 330.68         | 3,316.9                   | 599.4         | -336.6        | 687.4                       | 3.00                        | -3.00                      | 0.00                      |
| 3,500.0                   | 1.00               | 330.68         | 3,416.8                   | 603.2         | -338.8        | 691.8                       | 3.00                        | -3.00                      | 0.00                      |
| 3,533.2                   | 0.00               | 0.00           | 3,450.0                   | 603.4         | -338.9        | 692.1                       | 3.00                        | -3.00                      | 0.00                      |
| 3,600.0                   | 0.00               | 0.00           | 3,516.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 3,700.0                   | 0.00               | 0.00           | 3,616.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 3,800.0                   | 0.00               | 0.00           | 3,716.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 3,900.0                   | 0.00               | 0.00           | 3,816.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 4,000.0                   | 0.00               | 0.00           | 3,916.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 4,100.0                   | 0.00               | 0.00           | 4,016.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 4,140.2                   | 0.00               | 0.00           | 4,057.0                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| <b>Wasatch Tongue</b>     |                    |                |                           |               |               |                             |                             |                            |                           |

**XTO Energy, Inc.**  
Planning Report

**Database:** EDM 2003.14 Single User Db  
**Company:** XTO Energy  
**Project:** Natural Buttes Wells(NAD83)  
**Site:** RBU 22-21E  
**Well:** RBU 22-21E  
**Wellbore:** RBU 22-21E  
**Design:** Permitted Wellbore

**Local Co-ordinate Reference:** Well RBU 22-21E  
**TVD Reference:** Rig KB @ 5202.0ft (Frontier #6)  
**MD Reference:** Rig KB @ 5202.0ft (Frontier #6)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

**Planned Survey**

| Measured<br>Depth<br>(ft)          | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
|------------------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 4,200.0                            | 0.00               | 0.00           | 4,116.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 4,283.2                            | 0.00               | 0.00           | 4,200.0                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| <b>RBU 22-21E -- Requested BHL</b> |                    |                |                           |               |               |                             |                             |                            |                           |
| 4,300.0                            | 0.00               | 0.00           | 4,216.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 4,400.0                            | 0.00               | 0.00           | 4,316.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 4,500.0                            | 0.00               | 0.00           | 4,416.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 4,510.2                            | 0.00               | 0.00           | 4,427.0                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| <b>Green River Tongue</b>          |                    |                |                           |               |               |                             |                             |                            |                           |
| 4,600.0                            | 0.00               | 0.00           | 4,516.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 4,665.2                            | 0.00               | 0.00           | 4,582.0                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| <b>Wasatch</b>                     |                    |                |                           |               |               |                             |                             |                            |                           |
| 4,700.0                            | 0.00               | 0.00           | 4,616.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 4,800.0                            | 0.00               | 0.00           | 4,716.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 4,900.0                            | 0.00               | 0.00           | 4,816.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 5,000.0                            | 0.00               | 0.00           | 4,916.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 5,100.0                            | 0.00               | 0.00           | 5,016.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 5,200.0                            | 0.00               | 0.00           | 5,116.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 5,300.0                            | 0.00               | 0.00           | 5,216.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 5,345.2                            | 0.00               | 0.00           | 5,262.0                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| <b>Chapita Wells</b>               |                    |                |                           |               |               |                             |                             |                            |                           |
| 5,400.0                            | 0.00               | 0.00           | 5,316.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 5,500.0                            | 0.00               | 0.00           | 5,416.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 5,600.0                            | 0.00               | 0.00           | 5,516.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 5,700.0                            | 0.00               | 0.00           | 5,616.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 5,800.0                            | 0.00               | 0.00           | 5,716.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 5,900.0                            | 0.00               | 0.00           | 5,816.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 6,000.0                            | 0.00               | 0.00           | 5,916.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 6,100.0                            | 0.00               | 0.00           | 6,016.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 6,200.0                            | 0.00               | 0.00           | 6,116.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 6,300.0                            | 0.00               | 0.00           | 6,216.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 6,400.0                            | 0.00               | 0.00           | 6,316.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 6,500.0                            | 0.00               | 0.00           | 6,416.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 6,600.0                            | 0.00               | 0.00           | 6,516.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 6,700.0                            | 0.00               | 0.00           | 6,616.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 6,800.0                            | 0.00               | 0.00           | 6,716.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 6,880.2                            | 0.00               | 0.00           | 6,797.0                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| <b>Uteland Buttes</b>              |                    |                |                           |               |               |                             |                             |                            |                           |
| 6,900.0                            | 0.00               | 0.00           | 6,816.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 7,000.0                            | 0.00               | 0.00           | 6,916.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 7,100.0                            | 0.00               | 0.00           | 7,016.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 7,200.0                            | 0.00               | 0.00           | 7,116.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 7,300.0                            | 0.00               | 0.00           | 7,216.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 7,400.0                            | 0.00               | 0.00           | 7,316.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 7,500.0                            | 0.00               | 0.00           | 7,416.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 7,600.0                            | 0.00               | 0.00           | 7,516.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 7,700.0                            | 0.00               | 0.00           | 7,616.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 7,745.2                            | 0.00               | 0.00           | 7,662.0                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| <b>Mesaverde</b>                   |                    |                |                           |               |               |                             |                             |                            |                           |
| 7,800.0                            | 0.00               | 0.00           | 7,716.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 7,900.0                            | 0.00               | 0.00           | 7,816.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 8,000.0                            | 0.00               | 0.00           | 7,916.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |
| 8,100.0                            | 0.00               | 0.00           | 8,016.8                   | 603.4         | -338.9        | 692.1                       | 0.00                        | 0.00                       | 0.00                      |



**XTO Energy, Inc.**  
Planning Report

**Database:** EDM 2003.14 Single User Db  
**Company:** XTO Energy  
**Project:** Natural Buttes Wells(NAD83)  
**Site:** RBU 22-21E  
**Well:** RBU 22-21E  
**Wellbore:** RBU 22-21E  
**Design:** Permitted Wellbore

**Local Co-ordinate Reference:** Well RBU 22-21E  
**TVD Reference:** Rig KB @ 5202.0ft (Frontier #6)  
**MD Reference:** Rig KB @ 5202.0ft (Frontier #6)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 8,200.0             | 0.00            | 0.00        | 8,116.8             | 603.4      | -338.9     | 692.1                 | 0.00                  | 0.00                 | 0.00                |
| 8,300.0             | 0.00            | 0.00        | 8,216.8             | 603.4      | -338.9     | 692.1                 | 0.00                  | 0.00                 | 0.00                |
| 8,400.0             | 0.00            | 0.00        | 8,316.8             | 603.4      | -338.9     | 692.1                 | 0.00                  | 0.00                 | 0.00                |
| 8,500.0             | 0.00            | 0.00        | 8,416.8             | 603.4      | -338.9     | 692.1                 | 0.00                  | 0.00                 | 0.00                |
| 8,583.2             | 0.00            | 0.00        | 8,500.0             | 603.4      | -338.9     | 692.1                 | 0.00                  | 0.00                 | 0.00                |
| 5 1/2"              |                 |             |                     |            |            |                       |                       |                      |                     |

**Targets**

**Target Name**

| - hit/miss target<br>- Shape  | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude         | Longitude         |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|------------------|-------------------|
| RBU 22-21E -- Request<br>- plan hits target<br>- Circle (radius 30.0) | 0.00          | 0.00         | 4,200.0  | 603.4      | -338.9     | 3,139,655.06  | 2,119,793.20 | 39° 55' 58.484 N | 109° 47' 27.140 W |

**Casing Points**

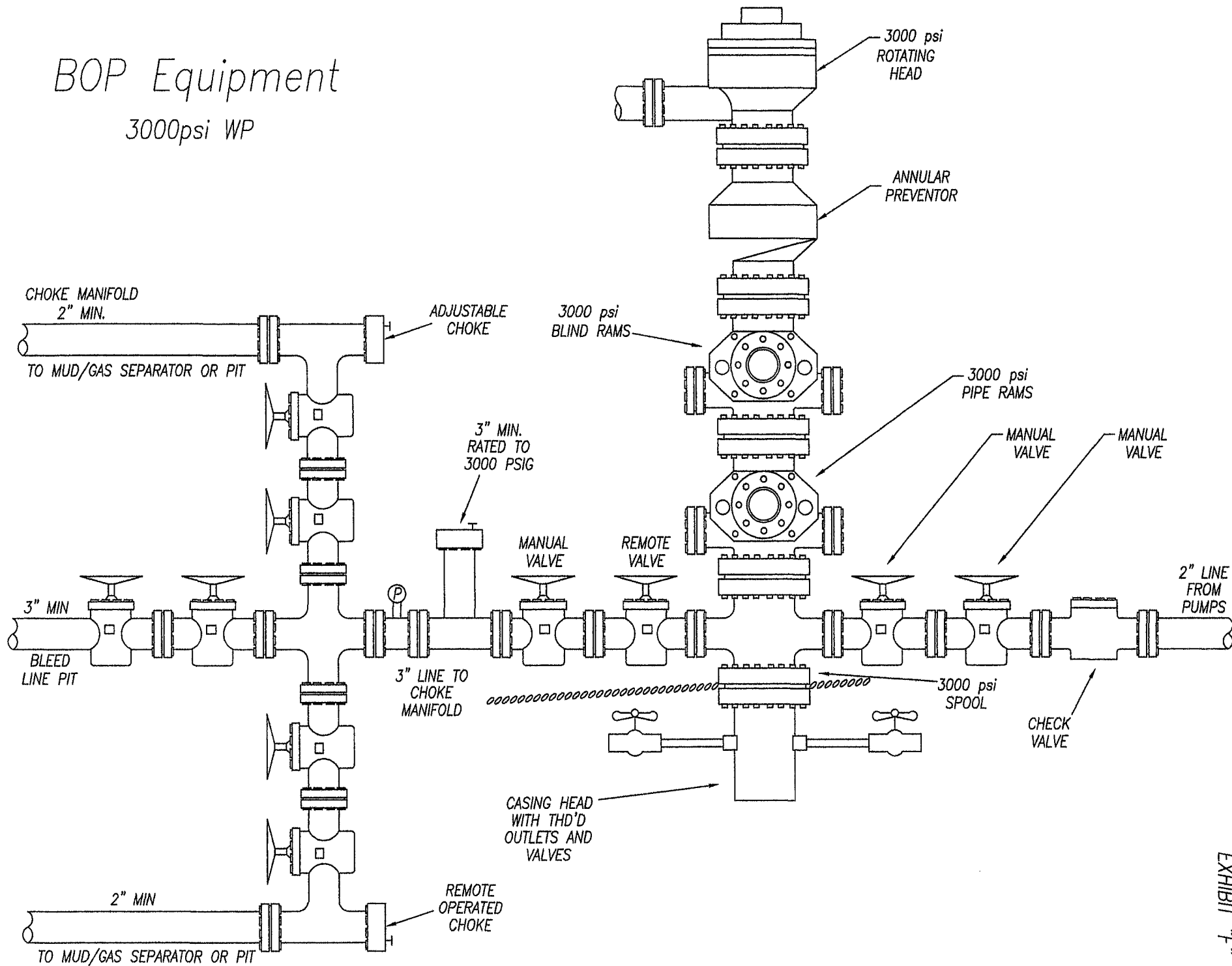
| Measured Depth (ft) | Vertical Depth (ft) | Name   | Casing Diameter (") | Hole Diameter (") |
|---------------------|---------------------|--------|---------------------|-------------------|
| 2,252.4             | 2,200.0             | 9 5/8" | 9-5/8               | 12-1/4            |
| 8,583.2             | 8,500.0             | 5 1/2" | 5-1/2               | 7-7/8             |

**Formations**

| Measured Depth (ft) | Vertical Depth (ft) | Name               | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|--------------------|-----------|---------|-------------------|
| 1,156.1             | 1,139.0             | Green River        |           | 0.00    |                   |
| 2,013.7             | 1,969.0             | Mahogany Shale     |           | 0.00    |                   |
| 4,140.2             | 4,057.0             | Wasatch Tongue     |           | 0.00    |                   |
| 4,510.2             | 4,427.0             | Green River Tongue |           | 0.00    |                   |
| 4,665.2             | 4,582.0             | Wasatch            |           | 0.00    |                   |
| 5,345.2             | 5,262.0             | Chapita Wells      |           | 0.00    |                   |
| 6,880.2             | 6,797.0             | Uteland Buttes     |           | 0.00    |                   |
| 7,745.2             | 7,662.0             | Mesaverde          |           | 0.00    |                   |

# BOP Equipment

3000psi WP



XTO Energy Corporation;  
River Bend Unit #22-21E: A Cultural  
Resource Inventory for a well  
its access and pipeline,  
Uintah County, Utah.

By  
James A. Truesdale

James A. Truesdale  
Principal Investigator

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Utah Project # U-08-AY-171(b)

April 18, 2008

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## Introduction

An Independent Archaeologist (AIA) was contacted by a representative of XTO Energy Corporation to conduct a cultural resources investigation of the proposed River Bend Unit (RBU) #22-21E well, its access and pipeline. The location of the project area is the NE/SW 1/4 of Section 21, T10S, R19E Uintah County, Utah (Figure 1).

The proposed RBU #22-21E well's centerstake footage (Alternate #1) is 2133' FSL, 1975' FWL. The proposed RBU #22-21E well's centerstake Universal Transverse Mercator (UTM) coordinate is Zone 12, North American Datum (NAD) 83, 06/03/417.71 mE 44/20/829.33 mN.

The proposed RBU #22-21E well will be directionally drilled from the existing RBU #11-21EX well pad. Therefore, the proposed RBU #22-21E well's access and pipeline is the existing access and pipeline associated with the RBU #11-21EX well.

The surface and minerals of Section 21 T10S R19E is administered by the U.S. Utah Bureau of Land Management (BLM), Vernal District Office, Book Cliffs Resource Area. A total of 10.0 acres (10 block, 0.0 linear) was surveyed. The fieldwork was conducted on April 9, 2008 by AIA owner and principal investigator James Truesdale. All the field notes and maps are located in the AIA office in Laramie, Wyoming.

## File Search

A file search was conducted by the Office of the Utah Division of State History (UDSH), Antiquities Section, Records Division on March 27, 2008. An additional file search was conducted at the Vernal BLM office in March of 2006 by the author.

An update of AIA's USGS 7.5'/1985 Moon Bottom quadrangle map from the UDSH's Moon bottom quadrangle base map occurred on November 8, 2003 and again on February 3, 2004. The UDSH SHPO GIS file search reported that twenty projects (U-00-AY-803, U-01-AY-123, U-02-AY-560, U-03-AY-210, U-03-AY-206, U-03-AY-209, U-03-AY-104, U-03-AY-341, U-03-AY-369, U-03-AY-379, U-04-AY-084, U-04-AY-085, U-08-AY-915, U-04-AY-916, U-04-AY-892, U-04-AY-893, U-04-AY-890, U-04-AY-995, U-05-AY-538 and U-06-AY-1166) have been previously conducted in the general area (Section 21 of T10S R19E). The Utah SHPO GIS files search indicated that no sites have been previously recorded in Section 21 of T10S R19E.

## Environment

Physiographically, the project is located in the western part of the River Bend Unit on Wild Horse Bench in the Uinta Basin, 18 miles south of Ouray, Utah. The Uinta Basin is structurally the lowest part of the Colorado Plateau geographical province (Thornbury 1965:425).

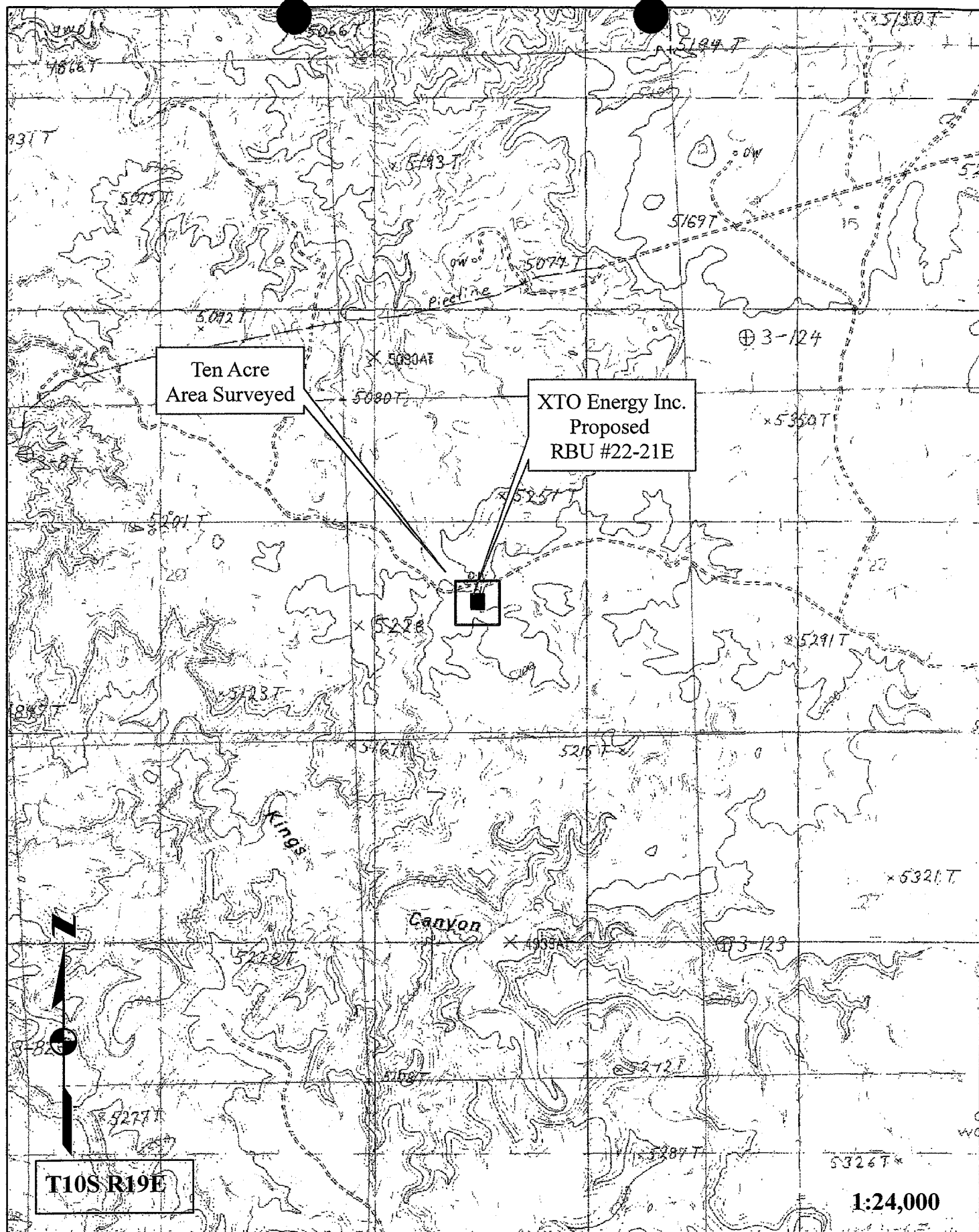


Figure 1. Location of the XTO Energy Inc. proposed RBU #22-21E well on USGS 7.5' Quadrangle map Big Pack Mountain NW (1968).

The Uinta basin is a large, relatively flat, bowl shaped, east-west asymmetrical syncline near the base of the Uinta Mountains. The topography is characteristic of sloping surfaces that incline northward and are mainly dip slopes on the harder layers of Green River and Uinta Formations (Stokes 1986).

A thick section of more than 9000 feet (2743.9 m) of early Tertiary rocks are exposed (Childs 1950). These rocks are mainly Paleocene and Eocene in age and consist of sandstone, clay and shale lacustrine, fluvial, and deltaic continental deposits, most famous of which are the lacustrine Green River Beds.

The immediate project area is situated on Wild Horse Bench that consists of a sequence of large upland hills and ridges that are located west of the Hill Creek Canyon and east of the Green River. The area is characterized as having steep ridges and/or buttes of relatively thick Uinta Formation sandstone, with thinner layers of clays and shale. The hills, ridges and buttes are dissected by several steep sided ephemeral drainage washes with wide flat alluvial plains. Portions of the desert hardpan and bedrock are covered with various sizes of residual angular to tabular pieces of eroding sandstone, clay and shale. Many of the higher hills and ridges exhibit ancient terrace (pediment) surfaces containing pebble and cobble gravel. Some of these pebbles and cobbles exhibit a dark brown to black desert varnish (patination). In addition, many of the hills and ridge slopes are covered with aeolian sand that may reach a depth of 100 to 150 cm.

Vegetation in the River Bend Unit area is characteristic of a low sagebrush community with shadscale and greasewood. Species observed in the project area include; big sagebrush (Artemisia tridentata), shadscale (Atriplex confertifolia), saltbush (Atriplex nuttallii), rabbitbrush (Chrysothamnus viscidiflorus), winterfat (Eurotia lanata), greasewood (Sarcobatus baileyi), wild buckwheat, (Erigonum ovvalifolium), desert trumpet (Erigonum inflatum), Indian rice grass (Oryzopsis hymenoides), western wheatgrass (Agropyron smithii), spiked wheatgrass (Agropyron sp.), crested wheatgrass (Agropyron cristatum), June grass (Koeleria cristata), cheat grass (Bromus tectorum), desert globemallow (Bromus tectorum), lupine (Lupinus sp.), larkspur (Delphinium sp.), Indian paintbrush (Castilleja chromosa), peppergrass (Lepidium perfoliatum), scalloped phacelia (Phacelia intergrifolia), birdsage evening primrose (Oenothera deltoides), Russian thistle (Salsola kali), Russian knapweed (Centaurea repens), and prickly pear cactus (Opuntia sp.). In addition, a riparian community dominated by tall greasewood, cottonwood (Populus sp.), willow (Salix sp.), and salt cedar (tamarix) can be found along the Hill Creek Canyon and Green River bottom.



### River Bend Unit (RBU) #22-21E

The proposed RBU #22-21E well will be directionally drilled from the existing RBU #11-21EX well pad. The proposed RBU #22-21E well centerstake (2133' FSL, 1975 FWL) east existing RBU #11-21EX well head (Figure 2).



Figure 2. View to the east of the proposed RBU #22-21E well centerstake located on the existing RBU #11-21EX well pad.

The proposed RBU #22-21E well pad is situated along the edge and southern end of a large flat bench (Figure 2). This location is situated on Wild Horse Bench that is part of a much larger upland bench system of hills and ridges, and drainages that drain west to the Green River and east to the Hill and Willow Creek canyons. Sediments on the well location have been partially disturbed by the RBU #11-21EX well's construction. The undisturbed sediments around the existing RBU #11-21EX well are colluvial in nature. These colluvial deposits consist of shallow ( $\leq 5$  cm), tan to light brown, poorly sorted, moderately compacted, sandy clay loam, mixed with small to medium sized flat angular pieces of sandstone, clay and shale on the ridge. Exposed and eroding to light brown sandstone and shale bedrock dominate the well pad landscape. Vegetation consists of low sagebrush, saltbush, rabbitbrush, greasewood, bunchgrasses (wheatgrass, cheat

grass, Indian rice-grass), barrel and prickly pear cactus. The proposed well location is 5251 feet (1600.91 m) AMSL.

As mentioned above, the proposed RBU #22-21E well will be directionally drilled from the existing RBU #11-21EX well pad. Therefore, the proposed access and pipeline for the RBU #22-21E well is the existing access and pipeline associated with the RBU #11-21EX well pad.

### Field Methods

A total of 10 acres was surveyed around the centerstake of the proposed RBU #22-21E well location to allow for relocation of the pad if necessary. The survey was accomplished by walking transects spaced no more than 15 meters apart. As mentioned earlier, the proposed RBU #22-21E well will be directionally drilled from the existing RBU #11-21EX well pad. Therefore, the proposed access and pipeline are the existing access and pipeline associated with the RBU #11-21EX well. Thus, a total 0.0 linear acres was surveyed.

Geologic landforms (rockshelters, alcoves, ridge tops and saddles) and areas of subsurface exposure (ant hills, blowouts, rodent holes and burrow, eroding slopes and cutbanks) were examined with special care in order to locate cultural resources (sites, isolates) and possibly help assess a site's sedimentary integrity and potential for the presence and/or absence of buried intact cultural deposits. All exposures of sandstone cliff faces, alcoves or rockshelters, and talus slopes were surveyed.

When cultural materials are discovered, a more thorough survey of the immediate vicinity is conducted in order to locate any associated artifacts and to determine the horizontal extent (surface area) of the site. If no other artifacts are located during the search then the initial artifact was recorded as an isolated find. At times, isolated formal tools (typical end scrapers, projectile points) were drawn and measured. The isolate was then described and its location plotted on a U.S.G.S. topographic map and UTM coordinates are recorded.

When sites are found an Intermountain Antiquities Computer System (IMACS) form was used to record the site. At all sites, selected topographic features, site boundaries, stone tools and cultural features (hearths, foundations, trash dumps and trails) are mapped. Sites were mapped with a Brunton compass, Trimble Geophysical 3 and/or Garmin E-Trex GPS units, and pacing off distances from a mapping station (datum, PVC with aluminum tag). All debitage is inventoried using standard recording techniques (Truesdale et al 1995:7) according to material type, basic flake type, and so on. Selected (mostly complete) stone tools and projectile points are drawn and measured. All features (rockart panel(s), hearths, foundations, trash dumps and trails) are measured and described, while selected features are either drawn

or photographed.

Site location data is recorded by a Trimble GeoExplorer 3 Global Positioning System (GPS) and/or Garmin GPS III Plus or a E-Trex GPS. Site elevation and Universal Transverse Mercator (UTM) grid data, its Estimated Position Error (EPE) and Dilution of Precision (DOP) were recorded. Using the GPS data, the site location was then placed on a USGS 7.5' quadrangle map.

### Results

A total of 10.0 (10 block, 0.0 linear) acres were surveyed for cultural resources by AIA within and around the proposed XTO Energy Corporation River Bend Unit (RBU) #22-21E well, and along its access and pipeline. No cultural resources (sites, isolates) were recorded on or around the proposed RBU #22-21E or along its access and pipeline.

The proposed RBU #22-21E well will directionally drilled from the existing RBU #11-21EX well pad. Therefore, the proposed access and pipeline is the access and pipeline associated with the RBU #11-21EX well pad.

A moderate scatter of modern trash (plastic bottles, sanitary food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation, etc.) can be found on and surrounding the existing well pads and along the existing oil and gas field service roads in the River Bend Unit area.

### Recommendations

A total of 10.0 (10 block, 0.0 linear) acres were surveyed for cultural resources by AIA within and around the proposed XTO Energy Corporation River Bend Unit #22-21E well, and along its access and pipeline. No additional cultural resources (sites, isolates) were recorded on or around the proposed RBU #22-21E or along its access and pipeline.

As mentioned earlier, the proposed RBU #22-21E well will directionally drilled from the existing RBU #11-21EX well pad. Therefore, the proposed access and pipeline is the access and pipeline associated with the RBU #11-21EX well pad.

A moderate scatter of modern trash (plastic bottles, sanitary food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation, etc.) can be found on and surrounding the existing well pads and along the existing oil and gas field service roads in the River Bend Unit area.

Sediments on and surrounding the proposed well pad, and along its access and pipeline are shallow. Therefore, the possibility of buried and/or intact cultural materials on the proposed well pad or along its access and pipeline is low. Therefore, no

additional archaeological work is necessary and clearance is recommended for the construction of the River Bend Unit #22-21E well pad, its access, and pipeline.

## REFERENCES CITED

Childs, O.E.

1950 Geologic history of the Uinta Basin, Utah Geological and Mineralogical Survey. Guidebook to the Geology of Utah, No. 5:49-59.

Stokes, William D.

1986 Geology of Utah. Contributions by the Utah Museum of Natural History, and the Utah Geological and Mineral Survey Department of Natural Resources. Utah Museum of Natural History, Occasional Papers, No. 6.

Thornbury, William D.

1965 Regional Geomorphology of the United States. John Wiley & Sons, Inc.

Truesdale, James A., Kathleen E Hiatt, and Clifford Duncan

1995 Cultural Resource Inventory of the Proposed Ouray Gravel Pit Location, Uintah-Ouray Ute Reservation, Uintah County, Utah. Report prepared for U & W Construction, Ft. Duchesne, Utah by AIA, Laramie, Wyoming.

# PALEONTOLOGY EVALUATION SHEET

---

**PROJECT:** XTO Energy, Inc. – RBU #22-21E, RBU #27-21E, and RBU #28-21E

**LOCATION:** Twelve miles southwest of Ouray, Uintah County, Utah. Section 21, 2133' FSL 1975' FEL, T10S, R19E, S.L.B.&M.

**OWNERSHIP:** PRIV[ ] STATE[ ] BLM[X] USFS[ ] NPS[ ] IND[ ] MIL[ ] OTHER[ ]

**DATE:** April 11, 2008

**GEOLOGY/TOPOGRAPHY:** Rock outcrops in this area are the lower part of Uinta Formation, Eocene age. The area is of moderate to low relief, but drops off to the south into a draw. These wells are on a pad that has already been constructed, but not drilled. It is being expanded with a larger pit and pad to the south.

**PALEONTOLOGY SURVEY:** YES [ ] NO Survey [ ] PARTIAL Survey [ X ]  
Surveyed the new area well pad is being expanded to.

**SURVEY RESULTS:** Invertebrate [ ] Plant [ ] Vertebrate [ ] Trace [ ] No Fossils Found [ X ]

**PALEONTOLOGY SENSITIVITY:** HIGH [ ] MEDIUM [ ] LOW [ X ] (PROJECT SPECIFIC)

**MITIGATION RECOMMENDATIONS:** NONE [ X ] OTHER [ ] (SEE BELOW)

No recommendations are being made for paleontology on these wells.

There is always some potential for discovery of significant paleontological resources in the Uinta Formation. If significant vertebrate fossils (mammals, crocodiles, complete turtle shells, etc.) are encountered during construction, work should stop in that area and a paleontologist should be contacted to evaluate the material discovered.

**PALEONTOLOGIST:** Alden H. Hamblin

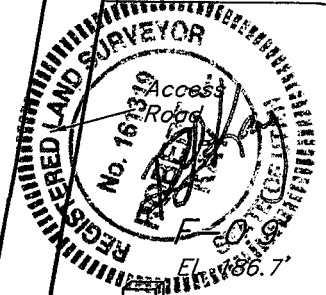
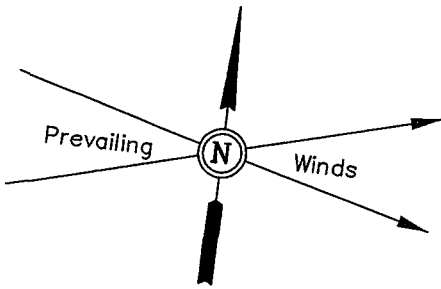
*A.H. Hamblin Paleontological Consulting, 3793 N. Minersville Highway, Cedar City, Utah 84720 (435) 867-8355*  
Utah State Paleontological Permit # 07-355, BLM paleontological Resources Permit # UT-S-05-02,  
Utah Professional Geologist License – 5223011-2250.

# XTO ENERGY, INC.

## LOCATION LAYOUT FOR

RBU #22-21E, #27-21E & #28-21E  
SECTION 21, T10S, R19E, S.L.B.&M.  
NE 1/4 SW 1/4

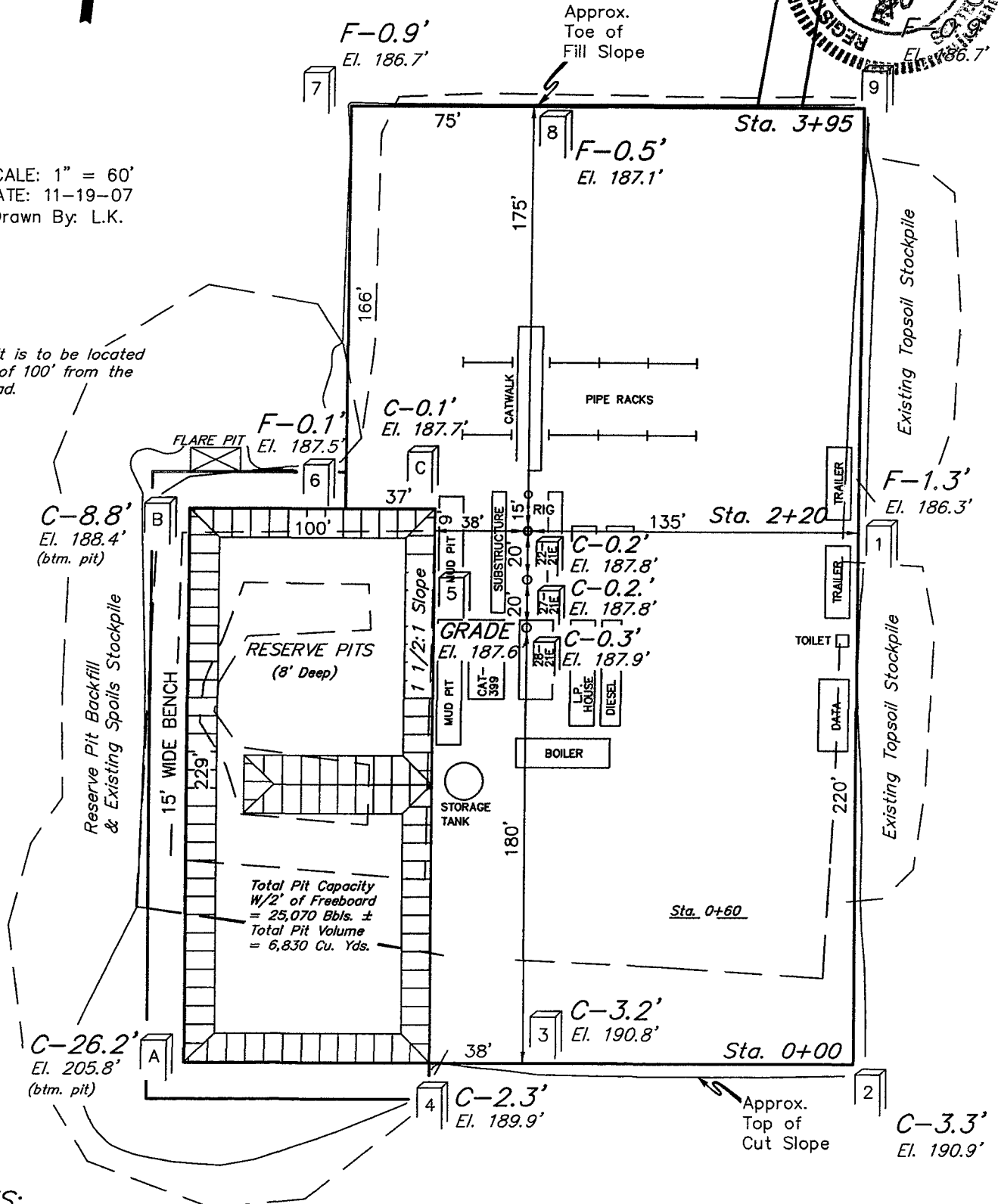
FIGURE #1



SCALE: 1" = 60'  
DATE: 11-19-07  
Drawn By: L.K.

### NOTE:

Flare Pit is to be located  
a min. of 100' from the  
Well Head.



### NOTES:

Elev. Ungraded Ground At #22-21E Loc. Stake = 5187.8'  
FINISHED GRADE ELEV. AT #22-21E LOC. STAKE = 5187.6'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# XTO ENERGY, INC.

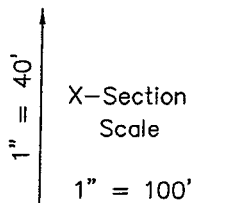
## TYPICAL CROSS SECTIONS FOR

RBU #22-21E, #27-21E & #28-21E

SECTION 21, T10S, R19E, S.L.B.&M.

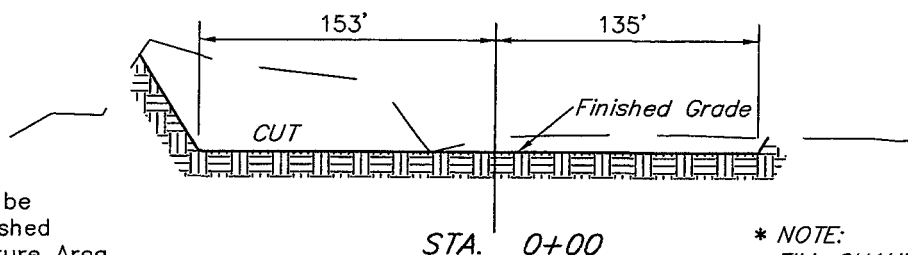
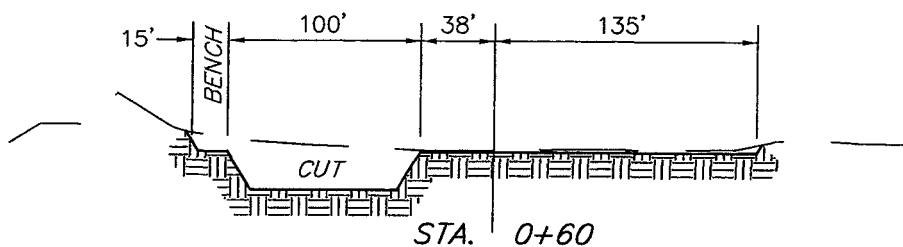
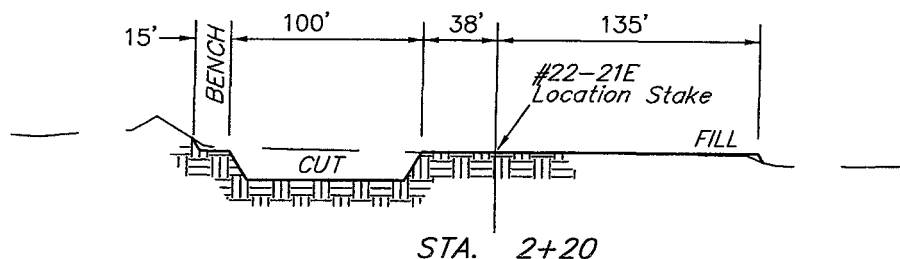
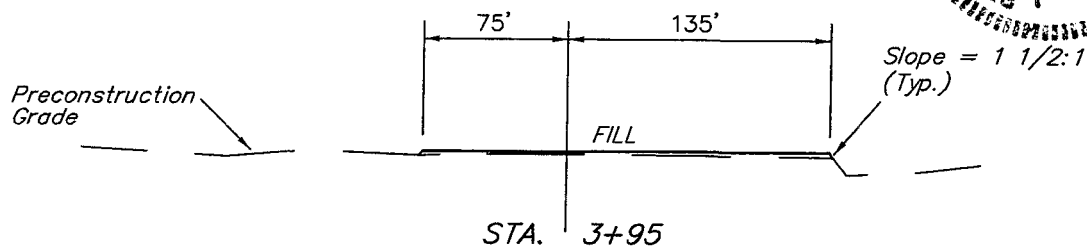
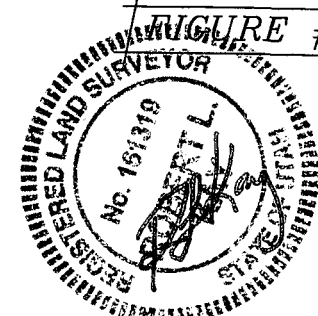
NE 1/4 SW 1/4

FIGURE #2



DATE: 11-19-07

Drawn By: L.K.



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### \* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

### APPROXIMATE YARDAGES

#### CUT

(6") Topsoil Stripping = 190 Cu. Yds.

(New Construction Only)

Remaining Location = 9,260 Cu. Yds.

TOTAL CUT = 9,450 CU.YDS.

FILL = 1,100 CU.YDS.

EXCESS MATERIAL = 8,350 Cu. Yds.

Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,610 Cu. Yds.

EXCESS UNBALANCE (After Rehabilitation) = 4,740 Cu. Yds.

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**XTO ENERGY, INC.**  
**RBU #22-21E, 27-21E, 28-21E**  
LOCATED IN UINTAH COUNTY, UTAH  
SECTION 21, T10S, R19E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: SOUTHERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

**LOCATION PHOTOS**

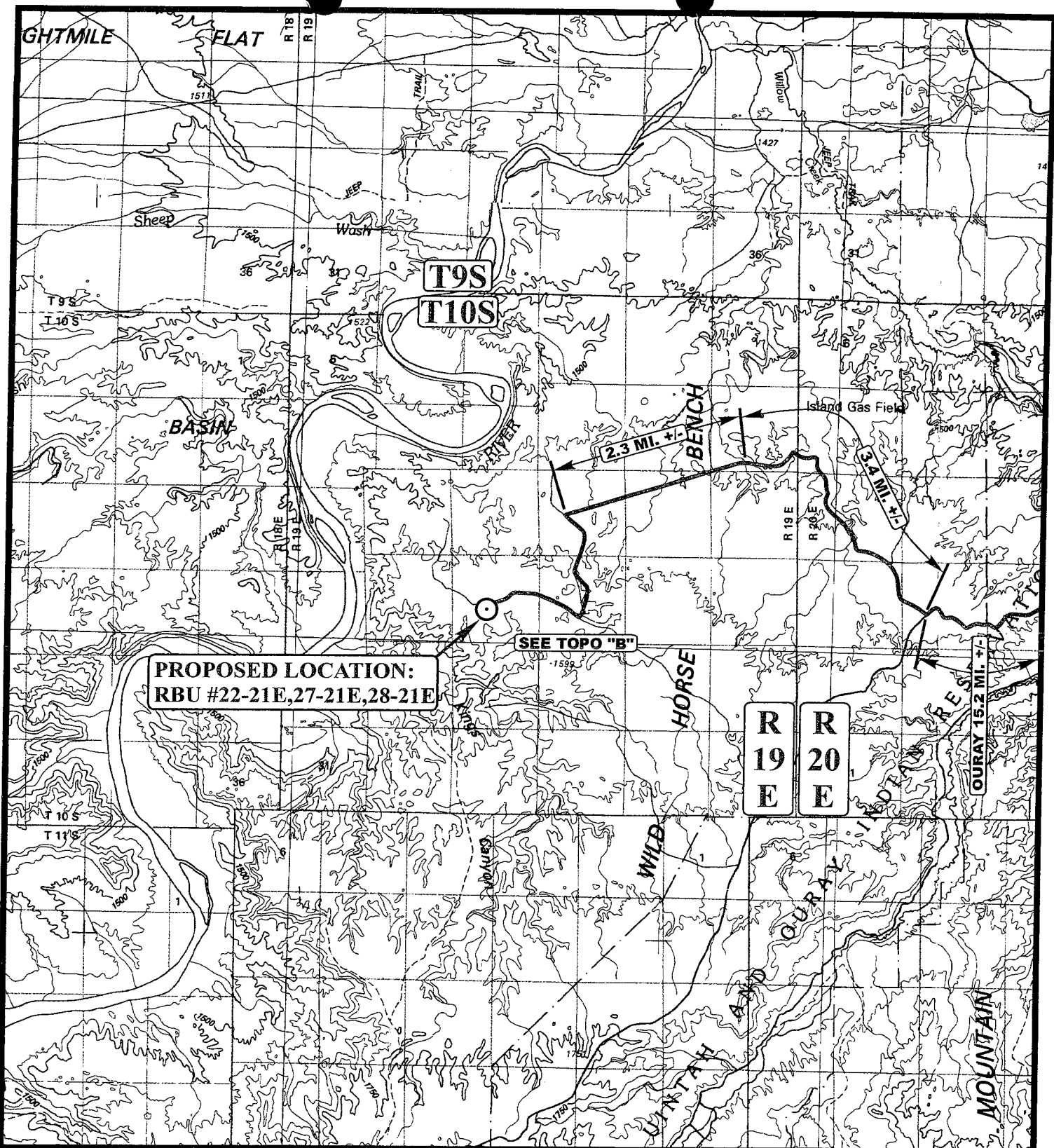
**10 18 07**  
MONTH DAY YEAR

**PHOTO**

TAKEN BY: B.B.

DRAWN BY: Z.L.

REVISED: 00-00-00



# LEGEND:

○ PROPOSED LOCATION

## XTO ENERGY, INC.

RBUs #22-21E, 27-21E, 28-21E  
SECTION 21, T10S, R19E, S.L.B.&M.  
2133' FSL 1975' F&L



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



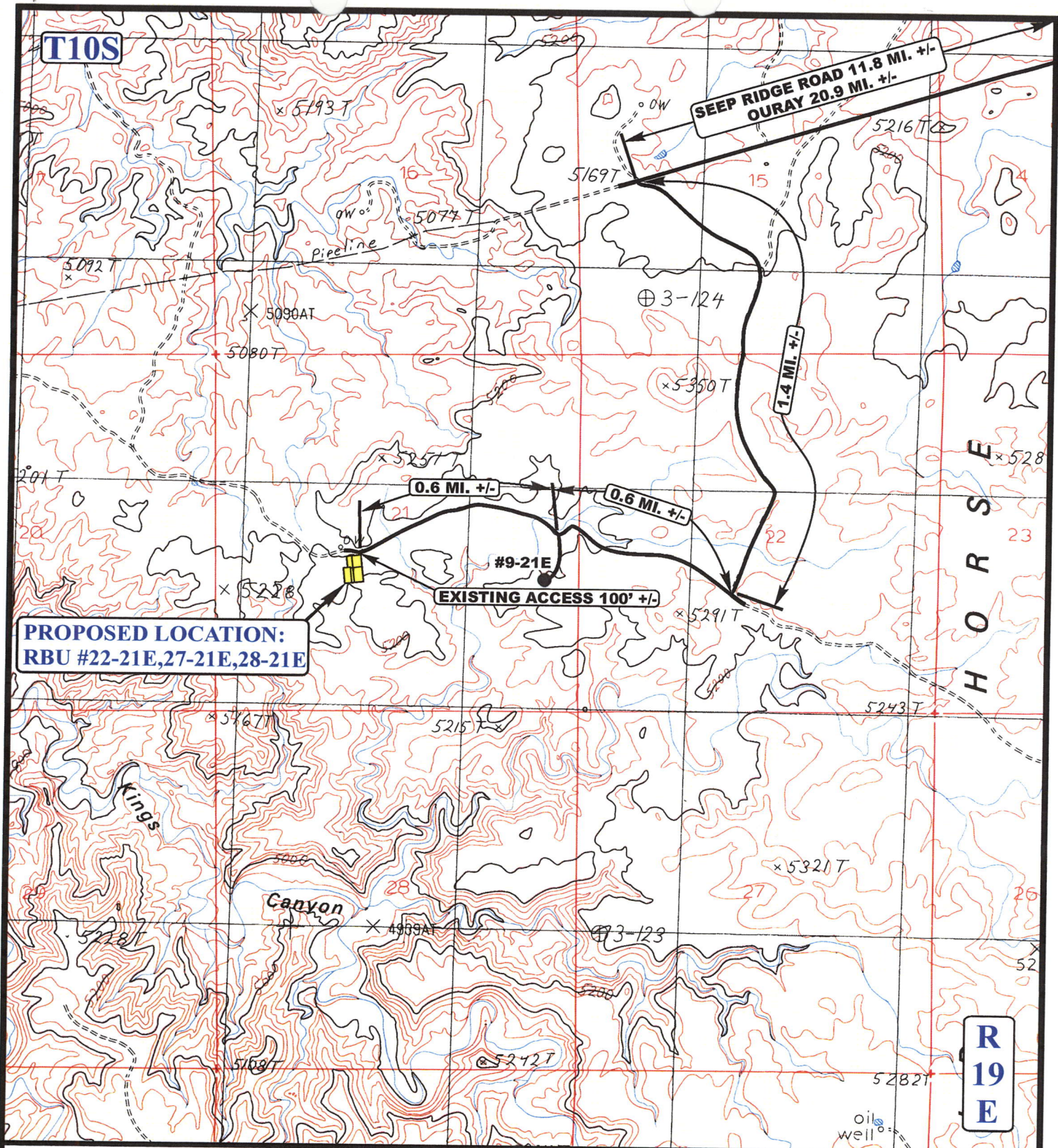
TOPOGRAPHIC  
MAP

10 18 07  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REVISED: 00-00-00







# LEGEND:

- EXISTING ROAD
- - - - - EXISTING ACCESS ROAD



**XTO ENERGY, INC.**

**RBUS #22-21E, 27-21E, 28-21E**  
**SECTION 21, T10S, R19E, S.L.B.&M.**  
**2133' FSL 1975' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

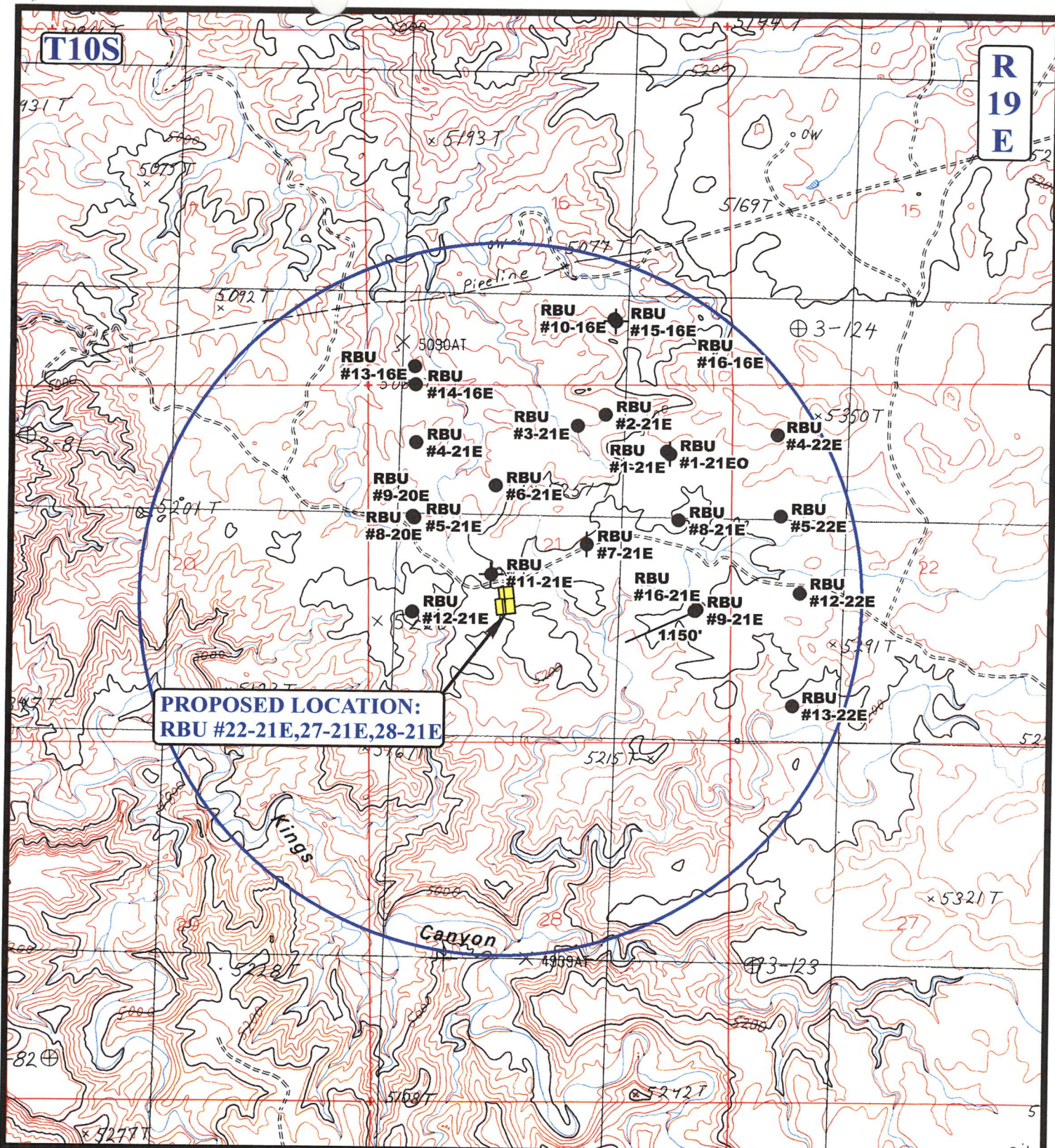
**TOPOGRAPHIC**  
**MAP**

**10/18/07**  
 MONTH DAY YEAR

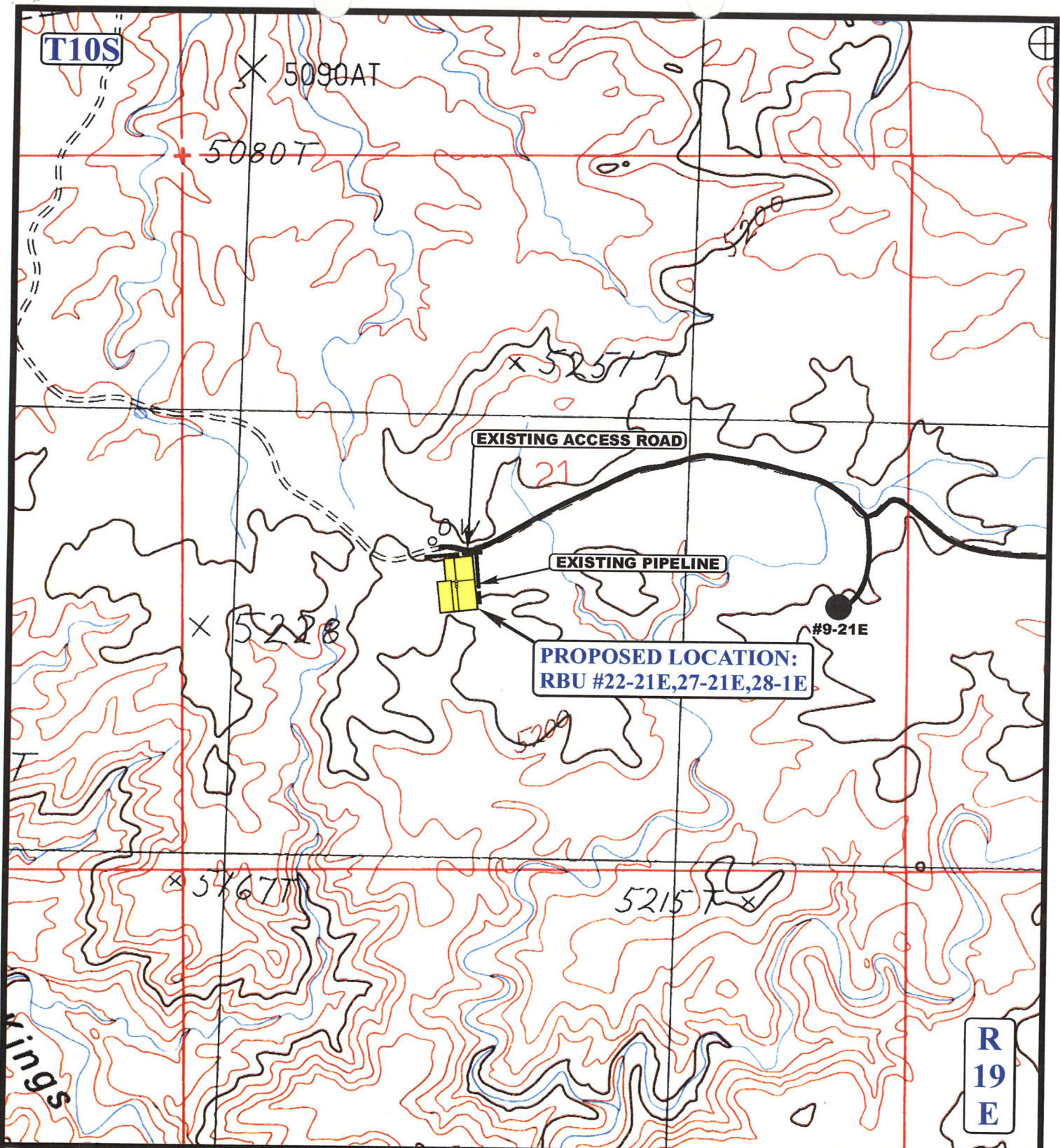
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**LEGEND:**

————— EXISTING ACCESS ROAD  
 - - - - - EXISTING PIPELINE



**XTO ENERGY, INC.**

**RBU #22-21E, 27-21E, 28-21E  
 SECTION 21, T10S, R19E, S.L.B.&M.  
 2133' FSL 1975' FEL**



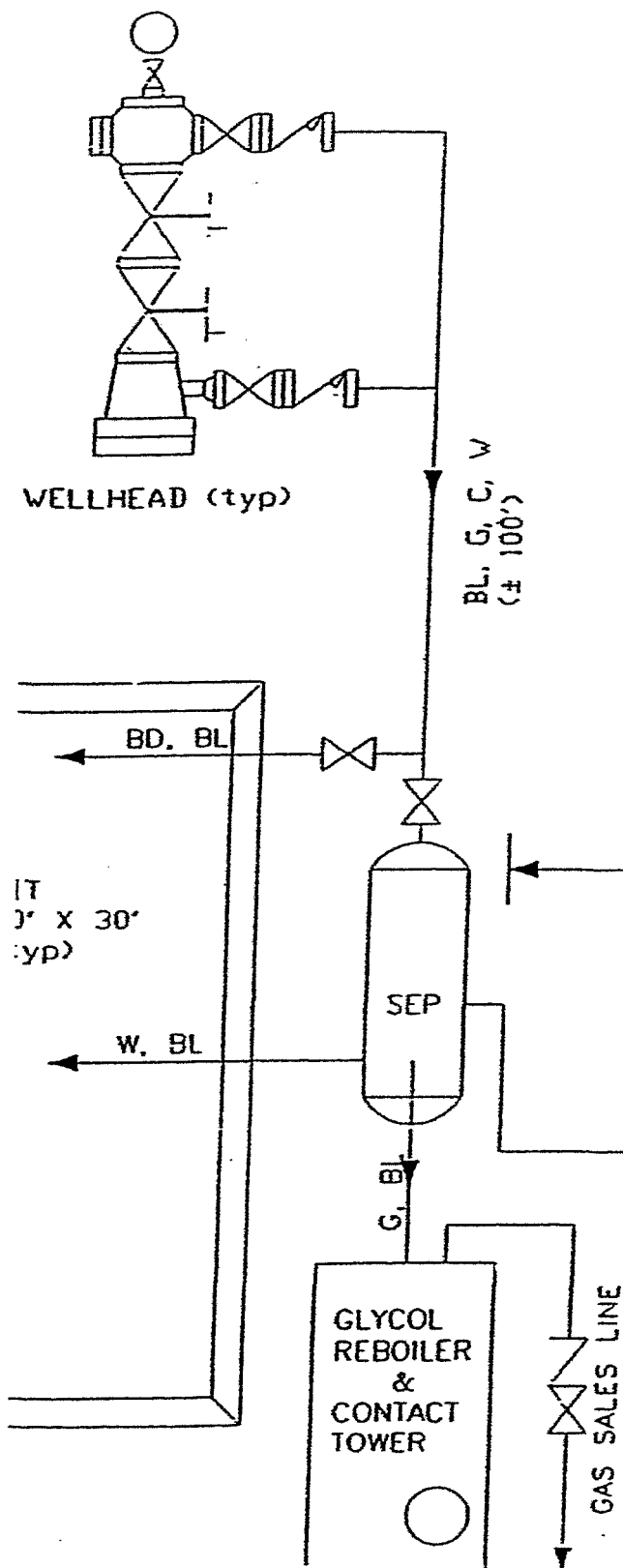
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
 MAP**

**10 18 07**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: Z.L. REVISED: 00-00-00

**D  
 TOPO**

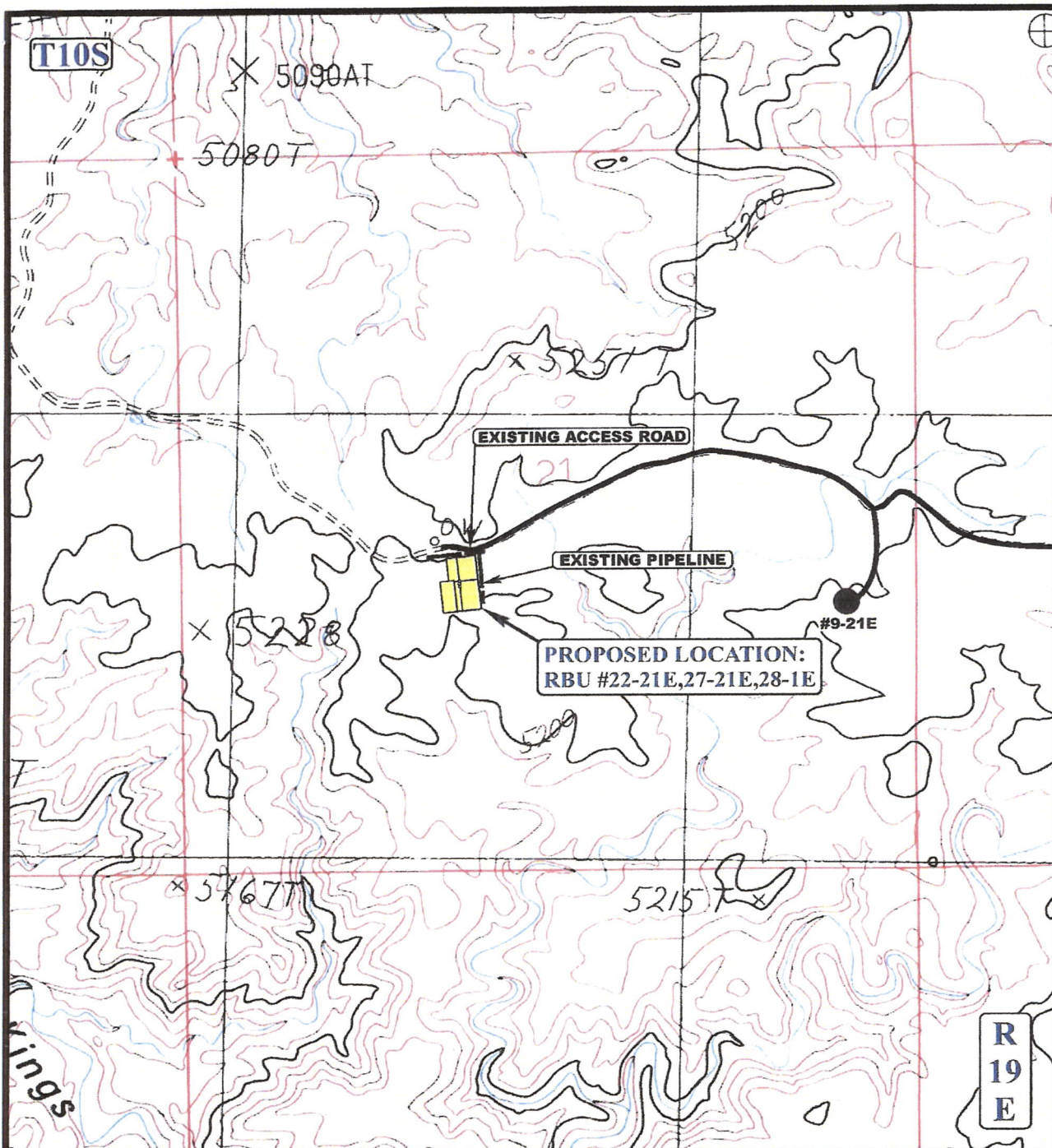


# LEGEND

O = Oil Line  
G = Gas Line  
W = Water Line  
R = Relief Line (Pressure)  
C = Condensate Line  
V = Vent Line  
D = Drain Line  
M = Gas Meter  
P = Pump  
BP = Back Pressure Valve  
SWS = Sealed When Shipping  
SUS = Sealed Unless Shipping  
T = Heat Traced Line  
H = Heater  
BL = Buried Line  
 $\times$  = Valve  
 $\nabla$  = Check Valve  
SC = Sealed Closed Valve  
NC = Normally Closed  
BD = Blowdown Line

The site security plan is on file in DEPI's district office located at 1400 N. State St., Roosevelt, Utah. It can be inspected during office hours, from 6:30 AM thru 3:30 PM, Monday thru Friday..





# **LEGEND:**

————— EXISTING ACCESS ROAD  
 - - - - - EXISTING PIPELINE

**XTO ENERGY, INC.**

**RBUs #22-21E, 27-21E, 28-21E**  
**SECTION 21, T10S, R19E, S.L.B.&M.**  
 2133' FSL 1975' ~~FSL~~ FWU



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC**  
**MAP**

**10 18 07**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: Z.L. REVISED: 00-00-00

**D**  
**TOPO**

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 09/25/2008

API NO. ASSIGNED: 43-047-40375

WELL NAME: RBU 22-21E

OPERATOR: XTO ENERGY INC ( N2615 )

PHONE NUMBER: 435-722-4521

CONTACT: DON HAMILTON

PROPOSED LOCATION:

NESW 21 100S 190E

SURFACE: 2133 FSL 1975 FWL

BOTTOM: 2570 FNL 1650 FWL

COUNTY: UINTAH

LATITUDE: 39.93127 LONGITUDE: -109.7888

UTM SURF EASTINGS: 603492 NORTHINGS: 4420621

FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /

| Tech Review | Initials | Date |
|-------------|----------|------|
| Engineering |          |      |
| Geology     |          |      |
| Surface     |          |      |

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-013766

PROPOSED FORMATION: WSMVD

SURFACE OWNER: 1 - Federal

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB-000138 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
(No. 43-10991 )

☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

R649-2-3.

Unit: RIVER BEND

R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 259-01

Eff Date: 8-18-2006

Siting: 460' fr. underf. uncomm. Tracts

R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS:

1- Federal Approval









JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

October 9, 2008

XTO Energy, Inc.  
P O Box 1360  
978 North Crescent Rd.  
Roosevelt, UT 84066

Re: RBU 22-21E Well, Surface Location 2133' FSL, 1975' FWL, NE SW, Sec. 21,  
T. 10 South, R. 19 East, Bottom Location 2570' FNL, 1650' FWL, SE NW, Sec. 21,  
T. 10 South, R. 19 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40375.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal Field Office



Operator: XTO Energy, Inc.

Well Name & Number RBU 22-21E

API Number: 43-047-40375

Lease: UTU-013766

Surface Location: NE SW      Sec. 21      T. 10 South      R. 19 East

Bottom Location: SE NW      Sec. 21      T. 10 South      R. 19 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281    (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

October 23, 2008

Fluid Minerals Group  
Bureau of Land Management  
Vernal Field Office  
170 South 500 East  
Vernal, Utah 84078

43-04740375

RE: **Corrected Pages** – Application for Permit to Drill—XTO Energy, Inc.  
**RBU 22-21E**

*Surface Location: 2,133' FSL & 1,975' FWL, NE/4 SW/4,  
Target Location: 2,570' FNL & 1,650' FWL, SE/4 NW/4,  
Section 21, T10S, R19E, SLB&M, Uintah County, Utah*

Dear Fluid Minerals Group:

On behalf of XTO Energy, Inc. Buys & Associates, Inc. respectfully submits the following corrected pages to replace those pages previously submitted. The pages reflect a correct bottomhole quarter quarter of SE/4 NW/4 on the cover letter, APD cover and first page of the surface use plan with all other information remaining unchanged. Please replace the pages within the previously submitted APD with the following updated pages.

We apologize for any confusion this may have caused. Please feel free to contact myself or Ken Secret of XTO Energy, Inc. at 435-722-4521 if you have any questions or need additional information.

Sincerely,

*Don Hamilton*

Don Hamilton  
Agent for XTO Energy, Inc.

cc: Diana Mason, Division of Oil, Gas and Mining  
Ken Secret, XTO Energy, Inc.

RECEIVED

OCT 27 2008

DIV. OF OIL, GAS & MINING

FILE COPY

September 22, 2008

Fluid Minerals Group  
Bureau of Land Management  
Vernal Field Office  
170 South 500 East  
Vernal, Utah 84078

RE: Application for Permit to Drill—XTO Energy, Inc.

**RBU 22-21E**

*Surface Location: 2,133' FSL & 1,975' FWL, NE/4 SW/4,*

*Target Location: 2,570' FNL & 1,650' FWL, SE/4 NW/4,*

*Section 21, T10S, R19E, SLB&M, Uintah County, Utah*

Dear Fluid Minerals Group:

On behalf of XTO Energy, Inc. Buys & Associates, Inc. respectfully submits the enclosed original and three copies of the Application for Permit to Drill (APD) for the above referenced BLM surface and mineral directional well. The location of the surface and target location as well as all points along the intended well bore path are within Cause No. 259-01 and are not within 460 feet of any uncommitted tracts or the unit boundary. A letter from XTO Energy immediately follows this letter to charge the APD processing fee under the Fiscal Year 2008 Consolidated Appropriations Act. Included with the APD is the following supplemental information:

Exhibit "A" - Survey plats, layouts and photos of the proposed well site;

Exhibit "B" - Proposed location maps with access and utility corridors;

Exhibit "C" - Production site layout;

Exhibit "D" - Directional Drilling Plan with Directional Survey

Exhibit "E" - Surface Use Plan with APD Certification;

Exhibit "F" - Typical BOP and Choke Manifold diagram;

Exhibit "G" - Cultural and Paleontological Clearance Reports.

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Ken Secrest of XTO Energy, Inc. at 435-722-4521 if you have any questions or need additional information.

Sincerely,

*Don Hamilton*

Don Hamilton  
Agent for XTO Energy, Inc.

cc: Diana Mason, Division of Oil, Gas and Mining  
Ken Secrest, XTO Energy, Inc.

**RECEIVED**

**OCT 27 2008**

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

|   |  |   |
|---|--|---|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER  |  | 5. Lease Serial No.<br><b>UTU-013766</b>  |
| 1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone              |  | 6. If Indian, Allottee or Tribe Name<br><b>N/A</b>  |
| 2. Name of Operator<br><b>XTO Energy, Inc.</b>  |  | 7. If Unit or CA Agreement, Name and No.<br><b>River Bend Unit</b>                        |
| 3a. Address <b>PO Box 1360; 978 North Crescent Road<br/>Roosevelt, UT 84066</b>   | 3b. Phone No. (include area code)<br><b>435-722-4521</b>   | 8. Lease Name and Well No.<br><b>RBU 22-21E</b>   |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)*<br>At surface <b>2,133' FSL &amp; 1,975' FWL, NE/4 SW/4,</b><br>At proposed prod. zone <b>2,570' FNL &amp; 1,650' FWL, SE/4 NW/4,</b> |  | 9. API Well No.   |
| 10. Field and Pool, or Exploratory<br><b>Natural Buttes</b>   |  | 11. Sec., T. R. M. or Blk. and Survey or Area<br><b>Section 21, T10S, R19E, SLB&amp;M</b> |
| 12. Distance in miles and direction from nearest town or post office*<br><b>12.37 miles southwest of Ouray, Utah</b>  |  | 12. County or Parish<br><b>Utah</b>   |
| 13. State<br><b>UT</b>  |  |   |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>1,975'</b>   | 16. No. of acres in lease<br><b>2,240 acres</b>            | 17. Spacing Unit dedicated to this well<br><b>40 acres</b>                                |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>20'</b>   | 19. Proposed Depth<br><b>8,583' MD, 8,500' TVD</b>         | 20. BLM/BIA Bond No. on file<br><b>UTB-000138</b>   |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br><b>5,188' GR</b>   | 22. Approximate date work will start*<br><b>12/15/2008</b> | 23. Estimated duration<br><b>14 days</b>  |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

|                                   |   |                           |
|-----------------------------------|---|---------------------------|
| 25. Signature <b>Don Hamilton</b> | Name (Printed/Typed)<br><b>Don Hamilton</b> | Date<br><b>09/22/2008</b> |
|-----------------------------------|---|---------------------------|

Title  
**Agent for XTO Energy, Inc.**

|                         |                      |      |
|-------------------------|----------------------|------|
| Approved by (Signature) | Name (Printed/Typed) | Date |
|-------------------------|----------------------|------|

|       |        |
|-------|--------|
| Title | Office |
|-------|--------|

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

RECEIVED

OCT 27 2008

DIV. OF OIL, GAS & MINING

## **SURFACE USE PLAN**

**Name of Operator:** XTO Energy, Inc.  
**Address:** PO Box 1360; 978 North Crescent Road  
Roosevelt, Utah 84066  
**Well Location:** RBU 22-21E  
*Surface Location:* 2,133' FSL & 1,975' FWL, NE/4 SW/4,  
*Target Location:* 2,570' FNL & 1,650' FWL, SE/4 NW/4,  
Section 21, T10S, R19E, SLB&M, Uintah County, Utah

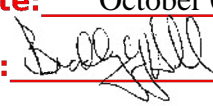
The surface owner or surface owner representative and dirt contractor will be provided with an approved copy of the surface use plan of operations and approved conditions of approval before initiating construction.

The onsite inspection for the referenced well was conducted on Tuesday, April 29, 2008 at approximately 2:21 pm. In attendance at the onsite inspection were the following individuals:

|                   |                             |                                     |
|-------------------|-----------------------------|-------------------------------------|
| Karl Wright       | Natural Resource Specialist | BLM – Vernal Field Office           |
| Brandon McDonald  | Wildlife Biologist          | BLM – Vernal Field Office           |
| Floyd Bartlett    | Inspector                   | DOGM – Roosevelt Field Office       |
| Brandon Bowthorpe | Surveyor                    | Uintah Engineering & Land Surveying |
| Randy Jackson     | Foreman                     | Jackson Construction                |
| Billy McClure     | Foreman                     | LaRose Construction                 |
| Jody Mecham       | Engineer                    | XTO Energy Inc.                     |
| Ken Secrest       | Regulatory Coordinator      | XTO Energy, Inc.                    |

1. **Location of Existing Roads:**

- a. The proposed well site is located approximately 27.37 miles southwest of Ouray, Utah.
- b. Directions to the proposed well site have been attached at the end of Exhibit B.
- c. The use of roads under State and County Road Department maintenance are necessary to access the River Bend Unit area. However, an encroachment permit is not anticipated since no upgrades to the State or County Road system are proposed at this time.
- d. All existing roads will be maintained and kept in good repair during all phases of operation.
- e. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- f. Since no improvements are anticipated to the State, County, Tribal or BLM access roads no topsoil striping will occur.
- g. An off-lease federal Right-of-Way is not anticipated for the access road and utility corridors since both are located entirely within the River Bend Unit area.

|   |   |  |
|---|---|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |   | <b>FORM 9</b>  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  |   | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-013766 |
| <b>1. TYPE OF WELL</b><br>Gas Well  |   | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>                 |
| <b>2. NAME OF OPERATOR:</b><br>XTO ENERGY INC   |   | <b>7. UNIT or CA AGREEMENT NAME:</b><br>RIVER BEND           |
| <b>3. ADDRESS OF OPERATOR:</b><br>382 Road 3100 , Aztec, NM, 87410  |   | <b>8. WELL NAME and NUMBER:</b><br>RBU 22-21E                |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>2133 FSL 1975 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NESW Section: 21 Township: 10.0S Range: 19.0E Meridian: S   |   | <b>9. API NUMBER:</b><br>43047403750000                      |
| <b>PHONE NUMBER:</b><br>505 333-3159 Ext  |   | <b>9. FIELD and POOL or WILDCAT:</b><br>NATURAL BUTTES       |
| <b>COUNTY:</b><br>UTAH  |   | <b>STATE:</b><br>UTAH  |
| <b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>  |   |  |
| <b>TYPE OF SUBMISSION</b>   | <b>TYPE OF ACTION</b>   |  |
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br>10/9/2010<br><br><input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:<br><br><input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:<br><br><input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date: | <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE<br/> <input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br/> <input type="checkbox"/> CHANGE WELL STATUS<br/> <input type="checkbox"/> DEEPEN<br/> <input type="checkbox"/> OPERATOR CHANGE<br/> <input type="checkbox"/> PRODUCTION START OR RESUME<br/> <input type="checkbox"/> REPERFORATE CURRENT FORMATION<br/> <input type="checkbox"/> TUBING REPAIR<br/> <input type="checkbox"/> WATER SHUTOFF<br/> <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING<br/> <input type="checkbox"/> CHANGE TUBING<br/> <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br/> <input type="checkbox"/> FRACTURE TREAT<br/> <input type="checkbox"/> PLUG AND ABANDON<br/> <input type="checkbox"/> RECLAMATION OF WELL SITE<br/> <input type="checkbox"/> SIDETRACK TO REPAIR WELL<br/> <input type="checkbox"/> VENT OR FLARE<br/> <input type="checkbox"/> SI TA STATUS EXTENSION<br/> <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR<br/> <input type="checkbox"/> CHANGE WELL NAME<br/> <input type="checkbox"/> CONVERT WELL TYPE<br/> <input type="checkbox"/> NEW CONSTRUCTION<br/> <input type="checkbox"/> PLUG BACK<br/> <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br/> <input type="checkbox"/> TEMPORARY ABANDON<br/> <input type="checkbox"/> WATER DISPOSAL<br/> <input checked="" type="checkbox"/> APD EXTENSION<br/>         OTHER: _____       </div> </div> |  |
| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br>XTO hereby requests a one year extension on the state permit for the referenced well.  |   |  |
| <b>Approved by the<br/>Utah Division of<br/>Oil, Gas and Mining</b>   |   |  |
| <b>Date:</b> <u>October 05, 2009</u>  |   |  |
| <b>By:</b>   |   |  |
| <b>NAME (PLEASE PRINT)</b><br>Eden Fine   | <b>PHONE NUMBER</b><br>505 333-3664   | <b>TITLE</b><br>Permitting Clerk                             |
| <b>SIGNATURE</b><br>N/A   | <b>DATE</b><br>10/1/2009  |  |





## The Utah Division of Oil, Gas, and Mining

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43047403750000

**API:** 43047403750000

**Well Name:** RBU 22-21E

**Location:** 2133 FSL 1975 FWL QTR NESW SEC 21 TWP 100S RNG 190E MER S

**Company Permit Issued to:** XTO ENERGY INC

**Date Original Permit Issued:** 10/9/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Eden Fine

**Date:** 10/1/2009

**Title:** Permitting Clerk **Representing:** XTO ENERGY INC

**Date:** October 05, 2009

**By:** 

**RECEIVED** October 01, 2009

|   |  |   |   |   |   |
|---|--|---|---|---|---|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |  | <b>FORM 9</b>   |   |   |   |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-013766  |   |   |   |
| <b>1. TYPE OF WELL</b><br>Gas Well  |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  |   |   |   |
| <b>2. NAME OF OPERATOR:</b><br>XTO ENERGY INC   |  | <b>7. UNIT or CA AGREEMENT NAME:</b><br>RIVER BEND  |   |   |   |
| <b>3. ADDRESS OF OPERATOR:</b><br>382 Road 3100 , Aztec, NM, 87410  |  | <b>8. WELL NAME and NUMBER:</b><br>RBU 22-21E   |   |   |   |
| <b>PHONE NUMBER:</b><br>505 333-3159 Ext  |  | <b>9. API NUMBER:</b><br>43047403750000   |   |   |   |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>2133 FSL 1975 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NESW Section: 21 Township: 10.0S Range: 19.0E Meridian: S   |  | <b>9. FIELD and POOL or WILDCAT:</b><br>NATURAL BUTTES  |   |   |   |
|   |  | <b>COUNTY:</b><br>UTAH  |   |   |   |
|   |  | <b>STATE:</b><br>UTAH   |   |   |   |
| <b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>  |  |   |   |   |   |
| <b>TYPE OF SUBMISSION</b>   | <b>TYPE OF ACTION</b>  |   |   |   |   |
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br>9/28/2011<br><br><input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:<br><br><input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:<br><br><input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:   | <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE<br/> <input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br/> <input type="checkbox"/> CHANGE WELL STATUS<br/> <input type="checkbox"/> DEEPEN<br/> <input type="checkbox"/> OPERATOR CHANGE<br/> <input type="checkbox"/> PRODUCTION START OR RESUME<br/> <input type="checkbox"/> REPERFORATE CURRENT FORMATION<br/> <input type="checkbox"/> TUBING REPAIR<br/> <input type="checkbox"/> WATER SHUTOFF<br/> <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING<br/> <input type="checkbox"/> CHANGE TUBING<br/> <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br/> <input type="checkbox"/> FRACTURE TREAT<br/> <input type="checkbox"/> PLUG AND ABANDON<br/> <input type="checkbox"/> RECLAMATION OF WELL SITE<br/> <input type="checkbox"/> SIDETRACK TO REPAIR WELL<br/> <input type="checkbox"/> VENT OR FLARE<br/> <input type="checkbox"/> SI TA STATUS EXTENSION<br/> <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR<br/> <input type="checkbox"/> CHANGE WELL NAME<br/> <input type="checkbox"/> CONVERT WELL TYPE<br/> <input type="checkbox"/> NEW CONSTRUCTION<br/> <input type="checkbox"/> PLUG BACK<br/> <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br/> <input type="checkbox"/> TEMPORARY ABANDON<br/> <input type="checkbox"/> WATER DISPOSAL<br/> <input checked="" type="checkbox"/> APD EXTENSION<br/>           OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px; vertical-align: middle;"></span> </td> </tr> </table> |   | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input checked="" type="checkbox"/> APD EXTENSION<br>OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px; vertical-align: middle;"></span> |
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| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br>XTO hereby requests a one (1) year extension on the State Permit for the referenced well.  |  |   |   |   |   |
| <b>Approved by the Utah Division of Oil, Gas and Mining</b><br><br><b>Date:</b> <u>September 29, 2010</u><br><b>By:</b>   |  |   |   |   |   |
| <b>NAME (PLEASE PRINT)</b><br>Kelly Small   |  | <b>PHONE NUMBER</b><br>505 333-3145   |   |   |   |
| <b>SIGNATURE</b><br>N/A   |  | <b>TITLE</b><br>Sr. Permitting Tech   |   |   |   |
|   |  | <b>DATE</b><br>9/28/2010  |   |   |   |

**RECEIVED** September 28, 2010



## The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43047403750000

**API:** 43047403750000

**Well Name:** RBU 22-21E

**Location:** 2133 FSL 1975 FWL QTR NESW SEC 21 TWP 100S RNG 190E MER S

**Company Permit Issued to:** XTO ENERGY INC

**Date Original Permit Issued:** 10/9/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Kelly Small

**Date:** 9/28/2010

**Title:** Sr. Permitting Tech **Representing:** XTO ENERGY INC

**Date:** September 29, 2010

**By:** 

**RECEIVED** September 28, 2010

|   |   |  |   |   |  |
|---|---|--|---|---|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |   | <b>FORM 9</b>  |   |   |  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  |   | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-013766   |   |   |  |
| <b>1. TYPE OF WELL</b><br>Gas Well  |   | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br><br>   |   |   |  |
| <b>2. NAME OF OPERATOR:</b><br>XTO ENERGY INC   |   | <b>7. UNIT or CA AGREEMENT NAME:</b><br>RIVER BEND   |   |   |  |
| <b>3. ADDRESS OF OPERATOR:</b><br>382 Road 3100 , Aztec, NM, 87410  |   | <b>8. WELL NAME and NUMBER:</b><br>RBU 22-21E  |   |   |  |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>2133 FSL 1975 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NESW Section: 21 Township: 10.0S Range: 19.0E Meridian: S   |   | <b>9. API NUMBER:</b><br>43047403750000  |   |   |  |
| <b>PHONE NUMBER:</b><br>505 333-3159 Ext  |   | <b>9. FIELD and POOL or WILDCAT:</b><br>NATURAL BUTTES   |   |   |  |
| <b>COUNTY:</b><br>UINTAH  |   | <b>STATE:</b><br>UTAH  |   |   |  |
| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA   |   |  |   |   |  |
| <b>TYPE OF SUBMISSION</b>   | <b>TYPE OF ACTION</b>   |  |   |   |  |
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br>10/5/2012<br><br><input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:<br><br><input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:<br><br><input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:   | <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE<br/> <input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br/> <input type="checkbox"/> CHANGE WELL STATUS<br/> <input type="checkbox"/> DEEPEN<br/> <input type="checkbox"/> OPERATOR CHANGE<br/> <input type="checkbox"/> PRODUCTION START OR RESUME<br/> <input type="checkbox"/> REPERFORATE CURRENT FORMATION<br/> <input type="checkbox"/> TUBING REPAIR<br/> <input type="checkbox"/> WATER SHUTOFF<br/> <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING<br/> <input type="checkbox"/> CHANGE TUBING<br/> <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br/> <input type="checkbox"/> FRACTURE TREAT<br/> <input type="checkbox"/> PLUG AND ABANDON<br/> <input type="checkbox"/> RECLAMATION OF WELL SITE<br/> <input type="checkbox"/> SIDETRACK TO REPAIR WELL<br/> <input type="checkbox"/> VENT OR FLARE<br/> <input type="checkbox"/> SI TA STATUS EXTENSION<br/> <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR<br/> <input type="checkbox"/> CHANGE WELL NAME<br/> <input type="checkbox"/> CONVERT WELL TYPE<br/> <input type="checkbox"/> NEW CONSTRUCTION<br/> <input type="checkbox"/> PLUG BACK<br/> <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br/> <input type="checkbox"/> TEMPORARY ABANDON<br/> <input type="checkbox"/> WATER DISPOSAL<br/> <input checked="" type="checkbox"/> APD EXTENSION<br/>         OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span> </td> </tr> </table> |  | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input checked="" type="checkbox"/> APD EXTENSION<br>OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span> |
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| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.<br>XTO Energy hereby requests a one (1) year extension of the State APD for the referenced well.   |   |  |   |   |  |
| <p style="color: red; font-weight: bold; margin: 0;">             Approved by the<br/>             Utah Division of<br/>             Oil, Gas and Mining           </p> <p style="color: red; font-weight: bold; margin: 0;">             Date: <u>10/13/2011</u> </p> <p style="color: red; font-weight: bold; margin: 0;">             By: <u></u> </p>   |   |  |   |   |  |
| <b>NAME (PLEASE PRINT)</b><br>Krista Wilson   |   | <b>PHONE NUMBER</b><br>505 333-3647  |   |   |  |
| <b>SIGNATURE</b><br>N/A   |   | <b>TITLE</b><br>Permitting Tech  |   |   |  |
| <b>DATE</b><br>10/5/2011  |   |  |   |   |  |



## The Utah Division of Oil, Gas, and Mining

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43047403750000

**API:** 43047403750000

**Well Name:** RBU 22-21E

**Location:** 2133 FSL 1975 FWL QTR NESW SEC 21 TWP 100S RNG 190E MER S

**Company Permit Issued to:** XTO ENERGY INC

**Date Original Permit Issued:** 10/9/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

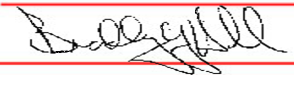
- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
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- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Krista Wilson

**Date:** 10/5/2011

**Title:** Permitting Tech **Representing:** XTO ENERGY INC

**RECEIVED** Oct. 05, 2011

|  |   |  |
|--|---|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |   | <b>FORM 9</b>  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.   |   | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-013766 |
| <b>1. TYPE OF WELL</b><br>Gas Well   |   | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>                 |
| <b>2. NAME OF OPERATOR:</b><br>XTO ENERGY INC  |   | <b>7. UNIT or CA AGREEMENT NAME:</b><br>RIVER BEND           |
| <b>3. ADDRESS OF OPERATOR:</b><br>382 Road 3100 , Aztec, NM, 87410   |   | <b>8. WELL NAME and NUMBER:</b><br>RBW 22-21E                |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>2133 FSL 1975 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NESW Section: 21 Township: 10.0S Range: 19.0E Meridian: S  |   | <b>9. API NUMBER:</b><br>43047403750000                      |
| <b>PHONE NUMBER:</b><br>505 333-3145 Ext   |   | <b>9. FIELD and POOL or WILDCAT:</b><br>NATURAL BUTTES       |
| <b>COUNTY:</b><br>UINTAH   |   | <b>STATE:</b><br>UTAH  |
| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  |   |  |
| <b>TYPE OF SUBMISSION</b>  | <b>TYPE OF ACTION</b>   |  |
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br><b>8/31/2013</b><br><br><input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:<br><br><input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:<br><br><input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date: | <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE<br/> <input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br/> <input type="checkbox"/> CHANGE WELL STATUS<br/> <input type="checkbox"/> DEEPEN<br/> <input type="checkbox"/> OPERATOR CHANGE<br/> <input type="checkbox"/> PRODUCTION START OR RESUME<br/> <input type="checkbox"/> REPERFORATE CURRENT FORMATION<br/> <input type="checkbox"/> TUBING REPAIR<br/> <input type="checkbox"/> WATER SHUTOFF<br/> <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING<br/> <input type="checkbox"/> CHANGE TUBING<br/> <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br/> <input type="checkbox"/> FRACTURE TREAT<br/> <input type="checkbox"/> PLUG AND ABANDON<br/> <input type="checkbox"/> RECLAMATION OF WELL SITE<br/> <input type="checkbox"/> SIDETRACK TO REPAIR WELL<br/> <input type="checkbox"/> VENT OR FLARE<br/> <input type="checkbox"/> SI TA STATUS EXTENSION<br/> <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR<br/> <input type="checkbox"/> CHANGE WELL NAME<br/> <input type="checkbox"/> CONVERT WELL TYPE<br/> <input type="checkbox"/> NEW CONSTRUCTION<br/> <input type="checkbox"/> PLUG BACK<br/> <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br/> <input type="checkbox"/> TEMPORARY ABANDON<br/> <input type="checkbox"/> WATER DISPOSAL<br/> <input checked="" type="checkbox"/> <b>APD EXTENSION</b><br/>         OTHER: <input style="width: 100px;" type="text"/> </div> </div> |  |
| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.<br>XTO Energy requests a one (1) year extension of the State APD for the referenced well.   |   |  |
| <b>Approved by the<br/>Utah Division of<br/>Oil, Gas and Mining</b><br><br><b>Date:</b> <u>October 11, 2012</u><br><b>By:</b> <u></u>   |   |  |
| <b>NAME (PLEASE PRINT)</b><br>Richard L. Redus   |   | <b>PHONE NUMBER</b><br>303 397-3712                          |
| <b>SIGNATURE</b><br>N/A  |   | <b>TITLE</b><br>Regulatory<br><br><b>DATE</b><br>10/3/2012   |



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047403750000**

API: 43047403750000

Well Name: RBU 22-21E

Location: 2133 FSL 1975 FWL QTR NESW SEC 21 TWP 100S RNG 190E MER S

Company Permit Issued to: XTO ENERGY INC

Date Original Permit Issued: 10/9/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

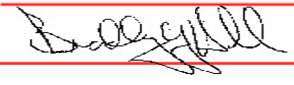
- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
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- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Richard L. Redus

Date: 10/3/2012

Title: Regulatory

Representing: XTO ENERGY INC

|   |  |  |
|---|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |  | <b>FORM 9</b>  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-013766 |
| <b>1. TYPE OF WELL</b><br>Gas Well  |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>                 |
| <b>2. NAME OF OPERATOR:</b><br>XTO ENERGY INC   |  | <b>7. UNIT or CA AGREEMENT NAME:</b><br>RIVER BEND           |
| <b>3. ADDRESS OF OPERATOR:</b><br>PO Box 6501, Englewood, CO, 80155   |  | <b>8. WELL NAME and NUMBER:</b><br>RBV 22-21E                |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>2133 FSL 1975 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NESW Section: 21 Township: 10.0S Range: 19.0E Meridian: S   |  | <b>9. API NUMBER:</b><br>43047403750000                      |
| <b>PHONE NUMBER:</b><br>303 397-3727 Ext  |  | <b>9. FIELD and POOL or WILDCAT:</b><br>NATURAL BUTTES       |
| <b>COUNTY:</b><br>UINTAH  |  | <b>STATE:</b><br>UTAH  |
| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA   |  |  |
| <b>TYPE OF SUBMISSION</b>   | <b>TYPE OF ACTION</b>  |  |
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br><b>7/7/2014</b><br><br><input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:<br><br><input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:<br><br><input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date: | <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE<br/> <input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br/> <input type="checkbox"/> CHANGE WELL STATUS<br/> <input type="checkbox"/> DEEPEN<br/> <input type="checkbox"/> OPERATOR CHANGE<br/> <input type="checkbox"/> PRODUCTION START OR RESUME<br/> <input type="checkbox"/> REPERFORATE CURRENT FORMATION<br/> <input type="checkbox"/> TUBING REPAIR<br/> <input type="checkbox"/> WATER SHUTOFF<br/> <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING<br/> <input type="checkbox"/> CHANGE TUBING<br/> <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br/> <input type="checkbox"/> FRACTURE TREAT<br/> <input type="checkbox"/> PLUG AND ABANDON<br/> <input type="checkbox"/> RECLAMATION OF WELL SITE<br/> <input type="checkbox"/> SIDETRACK TO REPAIR WELL<br/> <input type="checkbox"/> VENT OR FLARE<br/> <input type="checkbox"/> SI TA STATUS EXTENSION<br/> <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR<br/> <input type="checkbox"/> CHANGE WELL NAME<br/> <input type="checkbox"/> CONVERT WELL TYPE<br/> <input type="checkbox"/> NEW CONSTRUCTION<br/> <input type="checkbox"/> PLUG BACK<br/> <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br/> <input type="checkbox"/> TEMPORARY ABANDON<br/> <input type="checkbox"/> WATER DISPOSAL<br/> <input checked="" type="checkbox"/> <b>APD EXTENSION</b><br/>         OTHER: <input style="width: 100%;" type="text"/> </div> </div> |  |
| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.<br>XTO Energy requests a one (1) year extension of the State APD for the referenced well.  |  |  |
| <b>Approved by the<br/>Utah Division of<br/>Oil, Gas and Mining</b><br><br><b>Date:</b> <u>October 16, 2013</u><br><b>By:</b> <u></u>  |  |  |
| <b>NAME (PLEASE PRINT)</b><br>Sephra Baca   |  | <b>PHONE NUMBER</b><br>719 845-2103                          |
| <b>SIGNATURE</b><br>N/A   |  | <b>TITLE</b><br>Regulatory Analyst                           |
| <b>DATE</b><br>10/8/2013  |  |  |





**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Request for Permit Extension Validation Well Number 43047403750000**

**API:** 43047403750000

**Well Name:** RBU 22-21E

**Location:** 2133 FSL 1975 FWL QTR NESW SEC 21 TWP 100S RNG 190E MER S

**Company Permit Issued to:** XTO ENERGY INC

**Date Original Permit Issued:** 10/9/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
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- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Sephra Baca

**Date:** 10/8/2013

**Title:** Regulatory Analyst **Representing:** XTO ENERGY INC



## United States Department of the Interior

### BUREAU OF LAND MANAGEMENT

Green River District  
Vernal Field Office  
170 South 500 East  
Vernal, UT 84078

<http://www.blm.gov/ut/st/en/fo/vernal.html>



APR 14 2014

IN REPLY REFER TO:  
3160 (UTG011)

Malia Villers  
XTO Energy, Inc.  
PO Box 6501  
Englewood, CO 80155

43 047 40375

Re: Request to Return APD  
Well No. RBU 22-21E  
NESW, Sec. 21, T10S, R19E  
Uintah County, Utah  
Lease No. UTU-013766  
River Bend Unit

RECEIVED  
MAY 12 2014  
DIV. OF OIL, GAS & MINING

Dear Ms. Villers:

The Application for Permit to Drill (APD) for the above referenced well received in this office on September 23, 2008, is being returned unapproved per your request to this office in an email message to Natural Resource Specialist David Gordon received on February 19, 2014. If you intend to drill at this location at a future date, a new APD must be submitted.

If you have any questions regarding APD processing, please contact Robin R. Hansen at (435) 781-3428.

Sincerely,

/s/ Jerry Kenczka

Jerry Kenczka  
Assistant Field Manager  
Lands & Resource Minerals

Enclosures

cc: UDOGM

bcc: Well File

|  |  |  |
|--|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | <b>FORM 9</b>  |
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| <b>2. NAME OF OPERATOR:</b><br>XTO ENERGY INC  |  | <b>7. UNIT or CA AGREEMENT NAME:</b><br>RIVER BEND           |
| <b>3. ADDRESS OF OPERATOR:</b><br>PO Box 6501, Englewood, CO, 80155  |  | <b>8. WELL NAME and NUMBER:</b><br>RBW 22-21E                |
| <b>PHONE NUMBER:</b><br>303 397-3727 Ext   |  | <b>9. API NUMBER:</b><br>43047403750000                      |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>2133 FSL 1975 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NESW Section: 21 Township: 10.0S Range: 19.0E Meridian: S  |  | <b>9. FIELD and POOL or WILDCAT:</b><br>NATURAL BUTTES       |
|  |  | <b>COUNTY:</b><br>UINTAH                                     |
|  |  | <b>STATE:</b><br>UTAH  |

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION   |
|--|--|
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br><b>9/30/2015</b> | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> WILDCAT WELL DETERMINATION<br><input type="checkbox"/> OTHER |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:  | <input checked="" type="checkbox"/> <b>APD EXTENSION</b><br>OTHER: <input style="width: 100px;" type="text"/>  |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:   |  |
| <input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:  |  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

XTO Energy requests a one (1) year extension of the State APD for the referenced well.

**Approved by the**  
**September 23, 2014**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_  
**By:**

|   |                                     |   |
|---|-------------------------------------|---|
| <b>NAME (PLEASE PRINT)</b><br>Malia Villers | <b>PHONE NUMBER</b><br>303 397-3670 | <b>TITLE</b><br>Lead Permitting Analyst |
| <b>SIGNATURE</b><br>N/A                     | <b>DATE</b><br>9/18/2014            |   |



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047403750000**

API: 43047403750000

Well Name: RBU 22-21E

Location: 2133 FSL 1975 FWL QTR NESW SEC 21 TWP 100S RNG 190E MER S

Company Permit Issued to: XTO ENERGY INC

Date Original Permit Issued: 10/9/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

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- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Malia Villers

Date: 9/18/2014

Title: Lead Permitting Analyst Representing: XTO ENERGY INC



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

October 15, 2015

Malia Villers  
XTO Energy Inc.  
P.O. BOX 6501  
Englewood, CO 80155

43-047-40375

Re: APDs Rescinded for XTO Energy Inc., Uintah County


Dear Ms. Villers:

Enclosed find the list of APDs that you asked to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded effective October 9, 2015.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal



| <b>Operator</b> | <b>API Number</b> | <b>Well Name</b> | <b>Work Type</b> | <b>Date Approved</b> | <b>Date Permit Will Expire</b> |
|-----------------|-------------------|------------------|------------------|----------------------|--------------------------------|
| XTO ENERGY INC  | 4304739647        | RBU 16-20F       | DRILL            | 10/04/2007           | 10/04/2015                     |
| XTO ENERGY INC  | 4304740375        | RBU 22-21E       | DRILL            | 10/09/2008           | 10/09/2015                     |
| XTO ENERGY INC  | 4304740376        | RBU 27-21E       | DRILL            | 10/09/2008           | 10/09/2015                     |
| XTO ENERGY INC  | 4304740377        | RBU 28-21E       | DRILL            | 10/09/2008           | 10/09/2015                     |
| XTO ENERGY INC  | 4304738676        | LCU 12-9H        | DRILL            | 10/12/2006           | 10/12/2015                     |
| XTO ENERGY INC  | 4304738677        | LCU 6-9H         | DRILL            | 10/12/2006           | 10/12/2015                     |
| XTO ENERGY INC  | 4304738678        | LCU 4-11H        | DRILL            | 10/12/2006           | 10/12/2015                     |
| XTO ENERGY INC  | 4304738679        | LCU 9-12H        | DRILL            | 10/12/2006           | 10/12/2015                     |
| XTO ENERGY INC  | 4304738682        | LCU 14-6G        | DRILL            | 10/12/2006           | 10/12/2015                     |
| XTO ENERGY INC  | 4304738683        | LCU 13-6G        | DRILL            | 10/12/2006           | 10/12/2015                     |
| XTO ENERGY INC  | 4304738684        | LCU 10-6G        | DRILL            | 10/12/2006           | 10/12/2015                     |
| XTO ENERGY INC  | 4304738685        | LCU 5-6G         | DRILL            | 10/12/2006           | 10/12/2015                     |
| XTO ENERGY INC  | 4304738686        | LCU 4-6G         | DRILL            | 10/12/2006           | 10/12/2015                     |
| XTO ENERGY INC  | 4304738687        | LCU 7-6G         | DRILL            | 10/12/2006           | 10/12/2015                     |
| XTO ENERGY INC  | 4304738688        | LCU 3-6G         | DRILL            | 10/12/2006           | 10/12/2015                     |
| XTO ENERGY INC  | 4304740388        | RBU 1-3F         | DRILL            | 10/15/2008           | 10/15/2015                     |
| XTO ENERGY INC  | 4304740389        | RBU 2-3F         | DRILL            | 10/15/2008           | 10/15/2015                     |
| XTO ENERGY INC  | 4304740390        | RBU 6-3F         | DRILL            | 10/15/2008           | 10/15/2015                     |
| XTO ENERGY INC  | 4304740391        | RBU 7-3F         | DRILL            | 10/15/2008           | 10/15/2015                     |
| XTO ENERGY INC  | 4304740392        | RBU 8-3F         | DRILL            | 10/15/2008           | 10/15/2015                     |
| XTO ENERGY INC  | 4304740393        | RBU 9-3F         | DRILL            | 10/15/2008           | 10/15/2015                     |
| XTO ENERGY INC  | 4304740394        | RBU 12-3F        | DRILL            | 10/15/2008           | 10/15/2015                     |
| XTO ENERGY INC  | 4304740395        | RBU 15-3F        | DRILL            | 10/15/2008           | 10/15/2015                     |
| XTO ENERGY INC  | 4304740397        | HCU 4-30F        | DRILL            | 10/16/2008           | 10/16/2015                     |
| XTO ENERGY INC  | 4304737285        | LCU 11-17H       | DRILL            | 10/25/2005           | 10/25/2015                     |
| XTO ENERGY INC  | 4304737286        | LCU 7-17H        | DRILL            | 10/25/2005           | 10/25/2015                     |